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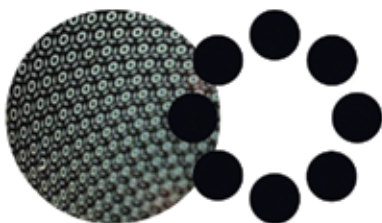
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Accuratus Corp NJ
Arlimin Industries CO
Associated Ceramics & Technology Inc PA
Astro Met Advanced Ceramics Inc OH
Beijing Cerametek Materials Co Ltd China
Blasch Precision Ceramics Inc NY
Ceramco Inc NH
CeramTec North America Corp SC
CeramTec-ETEC Germany
CerPoTech AS Norway
Du-Co Ceramics Company PA
FELDCO Intl CA
Ferro Ceramic Grinding Inc MA
Hunter Chemical LLC PA
Imerys Fused Minerals Murg GmbH Germany
Innovnano - Advanced Materials SA Portugal
Jyoti Ceramic Industries Pvt Ltd India
Keeling & Walker Ltd UK
Matexcel NY
MSE Supplies AZ
Nanocerox UT
nGimat LLC KY
Nyacol Nano Technologies Inc MA
Polymer Innovations Inc CA
Rauschert Industries Inc GA
Refractron Technologies Corp NY
Robocasting Enterprises LLC NM
Superior Technical Ceramics CorpVT
Trans-Tech Inc a subsidiary of Skyworks Solutions Inc MD

See ad on page 83

MATERIALS EXPERTS

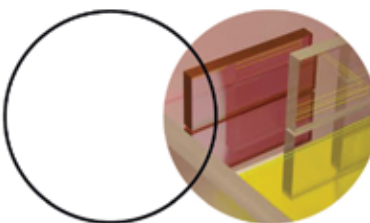
From R&D to Prototype to Production



MILITARY PROGRAMS

Ceramic Patterns for Radomes & Antennas

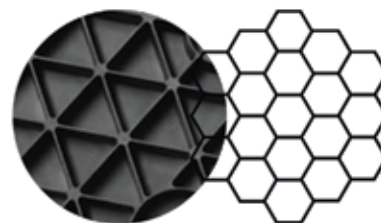
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- RF Design Optimization
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- Ceramic Matrix Composites & More



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 Robocasting Enterprises LLC NM
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 Tethon 3D NE
 Zhengzhou Mission Ceramic Products Co Ltd China
 Zircar Zirconia Inc NY

Reinforcements, Fiber

Free Form Fibers NY
 MemPro Materials Corp

Rings

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 CoorsTek CO
 Dunhua Zhengxing Abrasive Co Ltd China
 Elcon Precision LLC CA
 FCT Ingenieurkeramik GmbH Germany
 Ferro Ceramic Grinding Inc MA
 Ferrotec Ceramic Products China
 Industrial Ceramic Products Inc OH
 Ipsen Ceramics IL
 Morgan Technical Ceramics Auburn CA
 Ortech Inc CA
 Precision Ceramics FL
 PremaTech Advanced Ceramics MA
 Rauschert Industries Inc GA
 Refractron Technologies Corp NY
 Saint-Gobain NorPro OH
 Saint-Gobain Performance Ceramics & Refractories & Hexoloy SiC Materials MA
 Silicon Carbide Products Inc NY
 Suntech Advanced Ceramics (Shenzhen) Co Ltd China
 Superior Technical Ceramics Corp VT
 Xiamen Unipretec Ceramic Technology Co Ltd China
 Zhengzhou Mission Ceramic Products Co Ltd China

Rods

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 CoorsTek CO
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 Dunhua Zhengxing Abrasive Co Ltd China
 Elcon Precision LLC CA
 FCT Ingenieurkeramik GmbH Germany
 Ferro Ceramic Grinding Inc MA
 Ferrotec Ceramic Products China
 Industrial Ceramic Products Inc OH
 Jilin Changyu Advanced Materials Co, Ltd China
 Morgan Technical Ceramics Auburn CA
 Ortech Inc CA
 Precision Ceramics FL
 PremaTech Advanced Ceramics MA
 Progressive Technology Inc CA
 Rauschert Industries Inc GA
 Saint-Gobain Performance Ceramics & Refractories & Hexoloy SiC Materials MA
 Silicon Carbide Products Inc NY
 Suntech Advanced Ceramics (Shenzhen) Co Ltd China
 Superior Technical Ceramics Corp VT
 Xiamen Unipretec Ceramic Technology Co Ltd China
 Zhengzhou Mission Ceramic Products Co Ltd China

Silicide Products

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Silicon Carbide Products

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 Advanced Ceramics Manufacturing AZ
 Astral Material Industrial Co Ltd China

**Blasch Precision Ceramics Inc NY** See ad on page 109

Cancarb Limited Canada
 CoorsTek CO
 Custom Processing Services PA
 Diamorph AB UK
 FCT Ingenieurkeramik GmbH Germany
 FELDCO Intl CA
 Ferrotec Ceramic Products China
 Free Form Fibers NY

**Coherent CA** See ad on page 63

Morgan Advanced Materials CA
 O'Keefe Ceramics Inc CO
 Ortech Inc CA
 Precision Ceramics FL
 Precision Ferrites and Ceramics Inc CA
 PremaTech Advanced Ceramics MA
 Rauschert Industries Inc GA
 Refratechnik Ceramics GmbH Germany
 Saint-Gobain Ceramics & Plastics MA
 Saint-Gobain Performance Ceramics & Refractories & Hexoloy SiC Materials MA
 Silicon Carbide Products Inc NY
 Starfire Systems Inc NY
 Technology Assessment and Transfer Inc (TA&T) MD
TevTech LLC MA See ad on page 99
 Zhengzhou Mission Ceramic Products Co Ltd China

Silicon Nitride Products

Accuratus Corp NJ

Silicon Nitride Products

Actech Precision Ceramic (HK) Limited China
 Advanced Ceramic Technology CA
 Advanced Ceramics Manufacturing AZ
 Beijing Cerametek Materials Co Ltd China
 CoorsTek CO
 Creat3D Ceramics Singapore
 FELDCO Intl CA
 Ferrotec Ceramic Products China
 Free Form Fibers NY
 Inducerceramic Canada
 International Ceramic Engineering MA
 Morgan Advanced Materials CA
 O'Keefe Ceramics Inc CO
 Precision Ceramics FL
 Precision Ferrites and Ceramics Inc CA
 Rauschert Industries Inc GA
 Saint-Gobain Performance Ceramics & Refractories & Hexoloy SiC Materials MA
 SINTX Technologies UT
 Technology Assessment and Transfer Inc (TA&T) MD
 Zhengzhou Mission Ceramic Products Co Ltd China

Thickening Agents

Lubrizol Performance Coating OH Agents

Thread Guides

Akron Porcelain & Plastics Co OH
 Associated Ceramics & Technology Inc PA
 Astro Met Advanced Ceramics Inc OH
 Ceramco Inc NH
 CeramTec North America Corp SC
 Industrial Ceramic Products Inc OH
 International Ceramic Engineering MA
 Ortech Inc CA
 Rauschert Industries Inc GA
 Superior Technical Ceramics Corp VT
 Zhengzhou Mission Ceramic Products Co Ltd China

Transparent Ceramics

CeraNova Corp MA
 CoorsTek CO
 Creat3D Ceramics Singapore
 Ferrotec Ceramic Products China
 Israel Ceramic & Silicate Inst Israel
 nGimat LLC KY
 Precision Ferrites and Ceramics Inc CA
 PremaTech Advanced Ceramics MA
 SINTX Technologies UT
 Surmet Corp MA

Tubes

Accuratus Corp NJ
AdValue Technology LLC AZ See ad on page 67
 Advanced Ceramics Manufacturing AZ
 Akron Porcelain & Plastics Co OH
 Aremco Products Inc NY
 Associated Ceramics & Technology Inc PA
 Astro Met Advanced Ceramics Inc OH
 Blasch Precision Ceramics Inc NY
 Ceramco Inc NH
 CeramTec North America Corp SC
 CoorsTek CO
 Du-Co Ceramics Company PA
 Dunhua Zhengxing Abrasive Co Ltd China
 EBL Products Inc CT
 Elcon Precision LLC CA
 Ferrotec Ceramic Products China
 Inducerceramic Canada
 Industrial Ceramic Products Inc OH
 International Ceramic Engineering MA
 Jyoti Ceramic Industries Pvt Ltd India
 McDanel Advanced Ceramic Technologies LLC PA
 Morgan Technical Ceramics Auburn CA
 Ortech Inc CA
 Precision Ceramics FL
 Progressive Technology Inc CA
 Rauschert Industries Inc GA
 Refractron Technologies Corp NY
 Saint-Gobain Performance Ceramics & Refractories & Hexoloy SiC Materials MA
 Silicon Carbide Products Inc NY
 Suntech Advanced Ceramics (Shenzhen) Co Ltd China
 Superior Technical Ceramics Corp VT
 Xiamen Unipretec Ceramic Technology Co Ltd China
 Zhengzhou Mission Ceramic Products Co Ltd China
 Zircoa Inc OH

Wear-Resistant Parts

Accuratus Corp NJ
AdValue Technology LLC AZ See ad on page 67
 Advanced Ceramic Technology CA
 Advanced Ceramics Manufacturing AZ

Akron Porcelain & Plastics Co OH
 Associated Ceramics & Technology Inc PA
 Astral Material Industrial Co Ltd China
 Astro Met Advanced Ceramics Inc OH
 Bharat Heavy Electricals Ltd India
 Blasch Precision Ceramics Inc NY
 Ceramco Inc NH
 CeramTec North America Corp SC
 CeramTec-ETEC Germany
 CerCo LLC OH
 CoorsTek CO
 Diamorph AB UK
 EBL Products Inc CT
 FCT Ingenieurkeramik GmbH Germany
 FELDCO Intl CA
 Ferro Ceramic Grinding Inc MA
 Ferrotec Ceramic Products China
 Ipsen Ceramics IL
 Jilin Changyu Advanced Materials Co, Ltd China
 Jyoti Ceramic Industries Pvt Ltd India
 McDanel Advanced Ceramic Technologies LLC PA
 Morgan Advanced Materials CA
 Morgan Technical Ceramics Auburn CA
 NEVZ-Ceramics Close JSC Russia
 New Tech Ceramics Inc IA
 NGK Spark Plug Co Ltd Japan
 O'Keefe Ceramics Inc CO
 Ortech Inc CA
 P-Ker Engineering NY
 Precision Ceramics FL
 PremaTech Advanced Ceramics MA
 Progressive Technology Inc CA
 Rauschert Industries Inc GA
 Refrac Systems AZ
 Refractron Technologies Corp NY
 RocCera LLC NY

Saint-Gobain Ceramics & Plastics MA
 Saint-Gobain Performance Ceramics & Refractories &
 Hexoloy SiC Materials MA
 Silicon Carbide Products Inc NY
 Starfire Systems Inc NY
 Suntech Advanced Ceramics (Shenzhen) Co Ltd China
 Superior Technical Ceramics Corp VT
 Technology Assessment and Transfer Inc (TA&T) MD
 Xiamen Unipretec Ceramic Technology Co Ltd China
 Zhengzhou Mission Ceramic Products Co Ltd China
 Zircoa Inc OH

X-Ray Fluorescence

Capovani Brothers Inc NY

Zirconia Products

Accuratus Corp NJ
 Actech Precision Ceramic (HK) Limited China
 AdTech Ceramics TN



AdValue Technology LLC AZ

See ad on page 67

Advanced Ceramic Technology CA
 Advanced Ceramics Manufacturing AZ
 Akron Porcelain & Plastics Co OH
 Associated Ceramics & Technology Inc PA
 Astral Material Industrial Co Ltd China
 Astro Met Advanced Ceramics Inc OH
 Beijing Cerametek Materials Co Ltd China

Bharat Heavy Electricals Ltd India
 Ceramco Inc NH
 CeramTec North America Corp SC
 CeramTec-ETEC Germany
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 Creatz3D Ceramics Singapore
 EBL Products Inc CT
 ENrG Inc NY
 FCT Ingenieurkeramik GmbH Germany
 Ferro Ceramic Grinding Inc MA
 Ferrotec Ceramic Products China
 Imerys Fused Minerals Murg GmbH Germany
 Inducerceramic Canada
 Innovnano - Advanced Materials SA Portugal
 International Ceramic Engineering MA
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 Jyoti Ceramic Industries Pvt Ltd India
 Lithoz GmbH NY
 McDanel Advanced Ceramic Technologies LLC PA
 Morgan Advanced Materials CA
 MSE Supplies AZ
 Nanoe France
 NEVZ-Ceramics Close JSC Russia
 Nyacol Nano Technologies Inc MA
 O'Keefe Ceramics Inc CO
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Refractron Technologies Corp NY
 Robocasting Enterprises LLC NM
 RocCera LLC NY
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 Saint-Gobain NorPro OH
 Suntech Advanced Ceramics (Shenzhen) Co Ltd China
 Superior Technical Ceramics Corp VT
 Wistra GmbH Germany
 Xiamen Unipretec Ceramic Technology Co Ltd China
 Zhengzhou Mission Ceramic Products Co Ltd China
 Zibo Guangtong Chemical Co Ltd China
 Zircoa Inc OH

■ ARTWARE

Ceramic Artware

Arlimin Industries CO
 Art On Ceramic NY
 Ceramic Arts Network OH
 Milestone Decal Art LLC NY
 StudioLX - Home Decor IL
 Tethon 3D NE
 Viridis3D LLC MA

Glass Artware

Arlimin Industries CO
 RISE Research Institutes of Sweden RISE Glass Sweden
 StudioLX - Home Decor IL
 Viridis3D LLC MA

Lighting

Akron Porcelain & Plastics Co OH
 Viridis3D LLC MA

Ornamental Artware

Ceramic Arts Network OH
 StudioLX - Home Decor IL
 Viridis3D LLC MA

Pottery

ACCCO Inc/Burley Clay Products Co OH
 Arlimin Industries CO
 Ceramic Arts Network OH
 North Star Equipment Inc WA
 Peter Pugger Mfg Inc CA
 Petro Mold Company PA
 Ram Products Inc OH
 Sheffield Pottery MA
 StudioLX - Home Decor IL
 Viridis3D LLC MA

■ CERAMIC & METALLIC POWDERS & MATERIALS

Abrasive Grains

Alteo NA LLC OH
 Baikowski Malakoff Inc NC
 Electro Abrasives Corp NY
 FELDCO Intl CA
 GMA Industries Inc MI
 Imerys Refractory Minerals GA
 Kyanite Mining Corp VA
 Prince Minerals Inc (Prince International Corporation) TX
 Saint-Gobain Abrasives MA

Saint-Gobain Ceramics & Plastics MA
 Specialty Glass Inc FL
 Washington Mills NY

Adsorbants & Catalysts

GFS Chemicals Inc OH
 Saint-Gobain Ceramics & Plastics MA
 Saint-Gobain NorPro OH

Alumina, Activated

AluChem Inc OH
 Applied Ceramics Inc CA
 Denka Corp NY
 Momentive Performance Materials Inc NY
 Nanoe France



Paul O. Abbe Inc IL See ad on page 67

Prince Minerals Inc (Prince International Corporation) TX
 Sauereisen Inc PA
 Strem Catalog, by Ascensus Specialties MA

Alumina, Calcined

Almatis Inc PA
 Alteo NA LLC OH
 AluChem Inc OH
 APF Recycling Inc OH
 Baikowski Malakoff Inc NC
 Denka Corp NY
 Electro Abrasives Corp NY
 Fusion Ceramics Inc OH
 Hindalco Industries Limited India
 Maryland Refractories Co OH
 Nabaltec AG Germany
 Nanoe France



PIDC (Pacific Industrial Development Corporation) MI See ad on page 69

Prince Minerals Inc (Prince International Corporation) TX
 Refractory Minerals Co Inc PA
 Sauereisen Inc PA

Alumina, Fused

Alteo NA LLC OH
 APF Recycling Inc OH
 Denka Corp NY
 Electro Abrasives Corp NY
 GMA Industries Inc MI
 Imerys Refractory Minerals GA
 Lithoz GmbH NY
 McDanel Advanced Ceramic Technologies LLC PA
 Nanoe France
 Prince Minerals Inc (Prince International Corporation) TX
 Washington Mills NY

Alumina, Fused Brown

Alteo NA LLC OH
 APF Recycling Inc OH
 BassTech Intl NJ

Bosai Minerals Group Co Ltd China
 Electro Abrasives Corp NY
 GMA Industries Inc MI
 Imerys Refractory Minerals GA
 Washington Mills NY

Alumina, Fused White

Alteo NA LLC OH
 APF Recycling Inc OH
 Electro Abrasives Corp NY
 Imerys Refractory Minerals GA
 Sauereisen Inc PA
 Washington Mills NY

Alumina, High-Purity



3D ceram CT See ad on page 73

Actech Precision Ceramic (HK) Limited China
 Alteo NA LLC OH
 AluChem Inc OH
 APF Recycling Inc OH
 Applied Ceramics Inc CA
 Associated Ceramics & Technology Inc PA
 Baikowski Malakoff Inc NC
 CARBO Texas
 CoorsTek CO
 Creat3D Ceramics Singapore
 Denka Corp NY
 International Ceramic Engineering MA
 Ipsen Ceramics IL
 Lithoz GmbH NY
 Materion Advanced Materials NY
 Materion Ceramics AZ
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Showa Denko America Inc NY See ad on page 69

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 Suntech Advanced Ceramics (Shenzhen) Co Ltd Chia
 Valley Design Corp MA
 Xiamen Unipretec Ceramic Technology Co Ltd China

Alumina, Hydrated

Almatis Inc PA
 Alteo NA LLC OH
 Denka Corp NY
 Fusion Ceramics Inc OH
 Hindalco Industries Limited India
 Nanoe France
 PIDC (Pacific Industrial Development Corporation) MI
 Prince Minerals Inc (Prince International Corporation) TX
 RE Carroll Inc PA

Alumina, Other Grades

Almatis Inc PA
 Alteo NA LLC OH
 Associated Ceramics & Technology Inc PA
 Baikowski Malakoff Inc NC
 CoorsTek CO
 Denka Corp NY
 Hindalco Industries Limited India
 Imerys Refractory Minerals GA
 Nanoe France
 PIDC (Pacific Industrial Development Corporation) MI
 Prince Minerals Inc (Prince International Corporation) TX
 Trinity Ceramic Supply Inc TX
 Wesbond Corp DE

Alumina, Reactive

Almatis Inc PA
 Alteo NA LLC OH
 AluChem Inc OH
 Baikowski Malakoff Inc NC
 Denka Corp NY
 Hindalco Industries Limited India
 Nabaltec AG Germany
 Nanoe France
 Prince Minerals Inc (Prince International Corporation) TX

Alumina, Single Crystal

Denka Corp NY
 Nanoe France
 Prince Minerals Inc (Prince International Corporation) TX

Alumina, Tabular

Almatis Inc PA
 Alteo NA LLC OH
 AluChem Inc OH
 APF Recycling Inc OH
 Denka Corp NY
 GrainBound LLC PA
 Imerys Refractory Minerals GA
 Nanoe France
 Prince Minerals Inc (Prince International Corporation) TX
 Sauereisen Inc PA

Alumina, Zirconia Toughened

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 Denka Corp NY
 Innovnano - Advanced Materials SA Portugal
 Nanocerox UT
 Nanoe France
 PicoParts Ltd Israel
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 Rauschert Industries Inc GA
 Sauereisen Inc PA
 Washington Mills NY
 Xiamen Innovacera Advanced Materials Co Ltd China
 Zircoa Inc OH

Aluminum & Compounds

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 BassTech Intl NJ
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 Hindalco Industries Limited India
 Leico Industries Inc NJ
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Aluminum Nitride

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Aluminum Silicate

Goodfellow Corp PA
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Antimony & Compounds

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Arsenic Oxide

Alfa Aesar Johnson Matthey MA

Barium & Compounds

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 BassTech Intl NJ
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 CerPoTech AS Norway
 FELDCO Intl CA
 GFS Chemicals Inc OH
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 Trinity Ceramic Supply Inc TX

Outside back cover

Barium Carbonate

BassTech Intl NJ
 Fusion Ceramics Inc OH
 Hexion Inc OH

Barium Titanate

AVX Corp SC
 BassTech Intl NJ
 Beijing Cerametek Materials Co Ltd China
 CerPoTech AS Norway
 Euro Support Advanced Materials The Netherlands
 Haiku Tech Inc FL
 Hexion Inc OH
 nGimat LLC KY

Bauxite, Sintered

Alteo NA LLC OH

Beryllium & Compounds

APF Recycling Inc OH
 Centerline Technologies MA
 Leico Industries Inc NJ
 Materion Advanced Materials NY
 Materion Ceramics AZ
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Bismuth & Compounds

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 CerPoTech AS Norway
 FELDCO Intl CA
 Fusion Ceramics Inc OH
 nGimat LLC KY

Boric Acid



Paul O. Abbe Inc IL See ad on page 67

Sauereisen Inc PA

U.S. Borax Inc | Rio Tinto IL See ad on page 71

Boron & Compounds

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 New Tech Ceramics Inc IA
 North American Hoganas PA
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U.S. Borax Inc | Rio Tinto IL See ad on page 71

Boron Carbide

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 CoorsTek CO
 Custom Processing Services PA
 Denka Corp NY
 Dunhua Zhengxing Abrasive Co Ltd China
 Electro Abrasives Corp NY
 FELDCO Intl CA
 Free Form Fibers NY
 Goodfellow Corp PA
 North American Hoganas PA
 Reade Advanced Materials RI
 SINTX Technologies UT
 Superior Graphite Co IL
 Washington Mills NY

Boron Nitride

Agostyx OR
 Atlantic Equipment Engineers NJ
 Denka Corp NY
 Diamorph AB UK
 FELDCO Intl CA
 Goodfellow Corp PA
 International Ceramic Engineering MA
 Momentive Performance Materials Inc NY
 North American Hoganas PA
 Precision Ceramics FL
 Reade Advanced Materials RI
 Saint-Gobain Ceramics & Plastics MA
 Xiamen Unipretec Ceramic Technology Co Ltd China

Cadmium & Compounds

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 FELDCO Intl CA
 GFS Chemicals Inc OH
 Hunter Chemical LLC PA

Calcium & Compounds

C&L Development Corp CA
 CerPoTech AS Norway
 Denka Corp NY
 GFS Chemicals Inc OH
 Prince Minerals Inc (Prince International Corporation) TX

Calcium Aluminates

Almatis Inc PA
 CerPoTech AS Norway
Gorka Cement Poland See ad on page 107

Mineral Research Processing France

nGimat LLC KY

Sauereisen Inc PA

Calcium Carbonate

Arkema Inc PA
 Fusion Ceramics Inc OH
 Prince Minerals Inc (Prince International Corporation) TX
 RE Carroll Inc PA
 Unimin Corp CT

Calcium Silicate

Fusion Ceramics Inc OH
 Mineral Research Processing France
 Sauereisen Inc PA

Carbon Fibers

Goodfellow Corp PA

Carbons, Carbon Black

Cancarb Limited Canada

Carbons, Diamond

Agostyx OR
 Goodfellow Corp PA

Carbons, Graphite

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 APF Recycling Inc OH
 FELDCO Intl CA
 Goodfellow Corp PA
 Pred Materials International Inc NY
 Semco Carbon OH
 Superior Graphite Co IL

Cements

Aremco Products Inc NY
 ESL ElectroScience PA
 Gwent Electronic Materials Ltd UK

Cements, Refractory

Almatis Inc PA
 Aremco Products Inc NY
 Diamorph AB UK



Gorka Cement Poland See ad on page 107

Kerneos Inc VA

Mineral Research Processing France

Sauereisen Inc PA

Unifrax I LLC NY

Cerium & Compounds

American Elements Inc CA Outside back cover
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CerPoTech AS Norway
 FELDCO Intl CA
 GFS Chemicals Inc OH
 nGimat LLC KY
 PIDC (Pacific Industrial Development Corporation) MI

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 Treibacher Industrie AG Austria

See ad on page 83

Cerments

Gorka Cement Poland

See ad on page 107

Chamotte

Imerys Refractory Minerals GA

Chrome & Compounds

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 Atlantic Equipment Engineers NJ
 CerPoTech AS Norway
 Hunter Chemical LLC PA
 Monofrax LLC NY
 North American Hoganas PA

Clay Bodies, Formulated

American Art Clay Co Inc IN
 Imerys GA
 Laguna Clay Co CA
 Sheffield Pottery MA
 Tethon 3D NE
 Unimin Corp CT

Cobalt & Compounds

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 Atlantic Equipment Engineers NJ
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 Ceramic Color & Chemical Mfg Co PA
 CerPoTech AS Norway
 FELDCO Intl CA
 Fusion Ceramics Inc OH
 Goodfellow Corp PA
 Hunter Chemical LLC PA
 nGimat LLC KY
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Copper & Compounds

American Chemet Corp IL
 APF Recycling Inc OH
 Atlantic Equipment Engineers NJ
 Beijing Cerametek Materials Co Ltd China
 Ceramic Color & Chemical Mfg Co PA
 CerPoTech AS Norway
 Goodfellow Corp PA
 Matexcel NY
 Shoen Chemical Inc Japan

Dielectric Powders

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 CerPoTech AS Norway
 Euro Support Advanced Materials The Netherlands
 Gwent Electronic Materials Ltd UK
 Haiku Tech Inc FL
 North American Hoganas PA

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See ad on page 83

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 Treibacher Industrie AG Austria

Ferrites & Ferromagnetics

Centerline Technologies MA
 Powder Processing & Technology LLC IN
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Fibers, Ceramic

Free Form Fibers NY
 Matexcel NY
 MemPro Materials Corp
 Thermal Products Co Inc GA
 Unifrax I LLC NY
 Wesbond Corp DE

Fibers, Glass

BassTech Intl NJ
Mo-Sci Corp MO See ad on page 97
 RISE Research Institutes of Sweden RISE Glass Sweden
 Schott North America Inc NY
 Unifrax I LLC NY

Fluorides

Agostyx OR
 BassTech Intl NJ
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Frit

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 RISE Research Institutes of Sweden RISE Glass Sweden
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Grain, Refractory

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Graphite

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 Arecco Products Inc NY
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 Semco Carbon OH
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TevTech LLC MA See ad on page 99

Indium & Compounds

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Iron & Compounds

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Iron Oxide

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Lanthanides (also see Rare-Earths)

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Goodfellow Corp PA

Lithium & Compounds

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Baikowski Malakoff Inc NC
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 GFS Chemicals Inc OH
 Goodfellow Corp PA
 Pred Materials International Inc NY
 Prince Minerals Inc (Prince International Corporation) TX
 Atlantic Equipment Engineers NJ
 BassTech Intl NJ
 CerPoTech AS Norway
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Nanomaterials

Agostyx OR



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 Nyacol Nano Technologies Inc MA
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TevTech LLC MA

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Neodymium Oxide

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Nickel & Compounds

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AVX Corp SC

CerPoTech AS Norway

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Pigments

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Kyanite Mining Corp VA
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Sand, Glass

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Fusion Ceramics Inc OH
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3D ceram CT

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Spheres, Ceramic

Saint-Gobain NorPro OH

Spheres, Glass

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Mo-Sci Corp MO

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RISE Research Institutes of Sweden RISE Glass Sweden

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Titanium Diboride

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Tungsten Carbide

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TevTech LLC MA See ad on page 99

Zinc Borate

U.S. Borax Inc I Rio Tinto IL See ad on page 71

Zinc Oxide

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Clays, China

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 Riverside Refractories Inc--Allied Mineral Products AL
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Clays, Glaze

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Dolomite

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Feldspar

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 Trinity Ceramic Supply Inc TX

Flint

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 Fusion Ceramics Inc OH
 Sheffield Pottery MA

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 Imerys Refractory Minerals GA
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Kyanite Mining Corp VA

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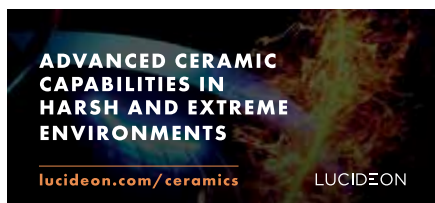
Analytical Services

Activation Laboratories Ltd Canada



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Hitech Materials Pty Ltd NSW
Israel Ceramic & Silicate Inst Israel
JTF Microscopy Services LLC NY



Lucideon UK

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Particle Technology Labs IL
Quantachrome Instruments FL
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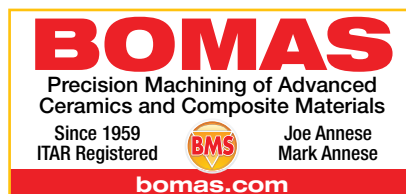
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Alfa Chemistry Materials NY
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Cerion Nanomaterials NY
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Lithoz GmbH NY



Lucideon UK

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Chemistry

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Agostyx OR
CelSian Glass & Solar BV The Netherlands



Cerion Nanomaterials NY See ad on page 75

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 CoorsTek CO

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Tethon 3D NE

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Diversified Controls & Systems NY
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JTF Microscopy Services LLC NY
NSL Analytical Services Inc OH
Optimization - Klug Systems NY
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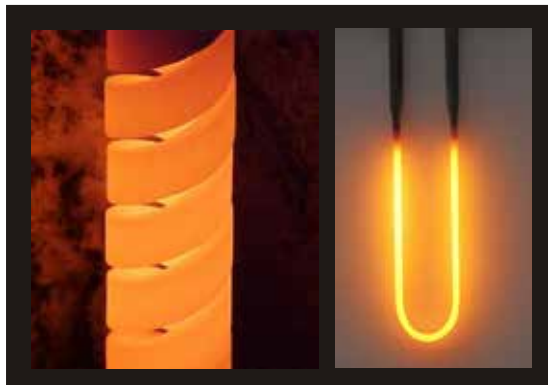
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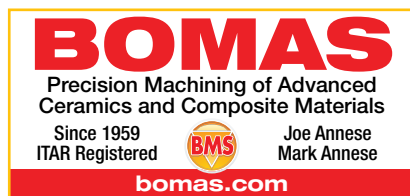
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Grinding, Custom



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**Harrop Industries Inc OH** See ad on page 58

Ipsen Ceramics IL

Oxy-Gon Industries Inc NH See ad on page 89

Refrac Systems AZ

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TevTech LLC MA See ad on page 99**Ultrasonic Machining**

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Fusion Ceramics Inc OH

Mason Color Works Inc OH

Decal Equipment

Art On Ceramic NY

Cerinnov France

Decals

Cerlase France

IPS Ceramics LTD UK

Milestone Decal Art LLC NY

Decorating Equipment

Cerinnov France

Decorating Supplies

Ceramic Color & Chemical Mfg Co PA

Enamels

Ceramic Color & Chemical Mfg Co PA

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Cerlase France

Fusion Ceramics Inc OH

RISE Research Institutes of Sweden RISE Glass Sweden

Engobes

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Ceramic Color & Chemical Mfg Co PA

Fusion Ceramics Inc OH

Mason Color Works Inc OH

Frits

Bekeson Glass LLC MS

Cerdadyne Inc a 3M Co KY

Ceramic Color & Chemical Mfg Co PA

Fusion Ceramics Inc OH

RISE Research Institutes of Sweden RISE Glass Sweden

Trinity Ceramic Supply Inc TX

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Cerlase France

Fusion Ceramics Inc OH

Laguna Clay Co CA

Mason Color Works Inc OH

RISE Research Institutes of Sweden RISE Glass Sweden

Sheffield Pottery MA

Glazing Equipment

Arlimin Industries CO

Cerinnov France

Du-Co Ceramics Company PA

HED Intl Inc NJ

Inks

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Ceramic Color & Chemical Mfg Co PA

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Haiku Tech Inc FL

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Master Bond Inc NJ

Spray Booths

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Tethon 3D NE

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Ceritherm France
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Euro Support Advanced Materials The Netherlands
Fluid Energy Processing & Equipment Co PA
Harper International NY
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Recco Furnaces CA
Thermcraft Inc NC
Wistra GmbH Germany
Wyssmont Co NJ
Zenith China

Cars, Dryer

Zenith China

Cars, Kiln

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Keith Co CA
Magneco Metrel Inc IL
Recco Furnaces CA
Swindell Dressler Intl Co PA
Takasago Industry Co Ltd Japan
Wistra GmbH Germany
Zenith China

Inside front cover
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Cars, Transfer

Swindell Dressler Intl Co PA
Takasago Industry Co Ltd Japan

Controllers

Applied Test Systems Inc PA
Carbolite Gero UK
General Glass Equipment Co NJ
HED Intl Inc NJ
Paragon Industries LP TX
PSH Kilns & Furnaces Canada
Zenith China

Controllers, Combustion

Air Products PA
Fives North American Combustion Inc OH

Controllers, Furnace

Carbolite Gero UK
Nabertherm Inc DE



Thermcraft NC
Verder Scientific Inc PA

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Controllers, Temperature

Applied Test Systems Inc PA
Datapaq Inc NH
Edward Orton Jr Ceramic Foundation OH
Nabertherm Inc DE
Optocon AG Germany
Paragon Industries LP TX
PSH Kilns & Furnaces Canada
Verder Scientific Inc PA

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Applied Test Systems Inc PA
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Applied Test Systems Inc PA
B&P Littleford MI
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Coher Muegge LLC CT
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Furnace Products & Services Inc PA
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HED Intl Inc NJ
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Nabertherm Inc DE
Raymond Bartlett Snow-Schneck Processing IL
Spray Drying Systems Inc MD
Swindell Dressler Intl Co PA
Wyssmont Co NJ
Zibo Guangtong Chemical Co Ltd China

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Electrodes

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Haiku Tech Inc FL

I Squared R Element Co NY

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Environmental Control Systems

Air Products PA
Applied Test Systems Inc PA
Control Instruments Corp NJ
McGill AirClean OH
UCC Environmental IL

Furnaces

American Isostatic Presses OH
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Harrop Industries Inc OH See ad on page 58
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Trent Inc PA
Verder Scientific Inc PA
Winner Technology Korea
Wyssmont Co NJ

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Furnaces, Gas

Aadvanced Machinery Inc MI
Ceramic Services Inc PA
Ceritherm France
Harper International NY
Harrop Industries Inc OH
HED INTl Inc NJ
Keith Co CA
L&L Kiln Mfg Inc NJ
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Nabertherm Inc DE
Recco Furnaces CA
Seco/Warwick Corp PA
Swindell Dressler Intl Co PA
The Furnace Source LLC CT
Thermcraft Inc NC
Wyssmont Co NJ

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Furnaces, Glass-Melting

Applied Test Systems Inc PA
Carbolite Gero UK
Ceradyne Inc a 3M Co KY
CM Furnaces Inc NJ



Deltech Inc (Deltech Furnaces) CO Inside front cover
Deltech Kiln and Furnace Design LLC CO

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Furnace Products & Services Inc PA
General Glass Equipment Co NJ
Magneco Metrel Inc IL
Nabertherm Inc DE
Paragon Industries LP TX
PSH Kilns & Furnaces Canada
RISE Research Institutes of Sweden RISE Glass Sweden
Verder Scientific Inc PA

Furnaces, High-Temperature

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Cancarb Limited Canada
Capovani Brothers Inc NY
Carbolite Gero UK
Centorr Vacuum Industries NH
Ceritherm France
CM Furnaces Inc NJ

Cober Muegge LLC CT
Dalmia Inst of Scientific & Industrial Research India
Deltech Inc (Deltech Furnaces) CO Inside front cover
Detroit Process Machinery MI
FCT Systeme GmbH Germany
Furnace Products & Services Inc PA
Gasbarre Products Inc PA See ad on page 95
Harper International NY
Harrop Industries Inc OH See ad on page 58
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Materials Research Furnaces Inc NH
Nabertherm Inc DE



Oxy-Gon Industries Inc NH See ad on page 89

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PSH Kilns & Furnaces Canada
Quintus Technologies LLC OH
RD Webb Company Inc MA
Seco/Warwick Corp PA
Swindell Dressler Intl Co PA
The Furnace Source LLC CT



Thermcraft NC See ad on page 89

Verder Scientific Inc PA
Winner Technology Korea

Furnaces, Laboratory

Carbolite Gero UK
Capovani Brothers Inc NY



Centorr Vacuum Industries NH See ad on page 87

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Cober Muegge LLC CT
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Deltech Kiln and Furnace Design LLC CO See ad on page 79
FCT Systeme GmbH Germany
Harper International NY

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Materials Research Furnaces Inc NH
Nabertherm Inc DE

Oxy-Gon Industries Inc NH See ad on page 89
RD Webb Company Inc MA
RocCera LLC NY

The Furnace Source LLC CT
Verder Scientific Inc PA
Winner Technology Korea

Furnaces, Vacuum

Applied Test Systems Inc PA
AVS Inc MA
Capovani Brothers Inc NY
Centorr Vacuum Industries NH
Cober Muegge LLC CT
FCT Systeme GmbH Germany
Gasbarre Products Inc PA See ad on page 95
Goceram AB Sweden
Materials Research Furnaces Inc NH
Nabertherm Inc DE



Oxy-Gon Industries Inc NH See ad on page 89

RocCera LLC NY
Seco/Warwick Corp PA
The Furnace Source LLC CT
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Heating Elements

Applied Test Systems Inc PA



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I Squared R Element Co NY See ad on page 79

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Materials Research Furnaces Inc NH
Oxy-Gon Industries Inc NH See ad on page 89
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 RD Webb Company Inc MA
 Recco Furnaces CA
 RocCera LLC NY
 Swindell Dressler Intl Co PA
 Takasago Industry Co Ltd Japan
 Thermcraft Inc NC
 Wistra GmbH Germany

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Kilns, Bell

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 Ceramic Services Inc PA
 Ceritherm France
 Harper International NY
Harrop Industries Inc OH
 HED INTl Inc NJ
 Keith Co CA
 L&L Kiln Mfg Inc NJ

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 Nabertherm Inc DE
 Nutec Bickley Mexico
 PSH Kilns & Furnaces Canada
 Recco Furnaces CA
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 Takasago Industry Co Ltd Japan
 Thermcraft Inc NC

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Kilns, Box

Advanced Machinery Inc MI
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 Carbolite Gero UK
 Ceramic Services Inc PA
 Ceritherm France
 CM
 Furnaces Inc NJ
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Harrop Industries Inc OH
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 Keith Co CA
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Kilns, Elevator

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Kilns, Periodic (Batch)

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Kilns, Rotary

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Thermcraft Inc NC
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Lucifer Furnaces Inc PA
Nabertherm Inc DE
Nutech Bickley Mexico
Recco Furnaces CA
Swindell Dressler Int'l Co PA
Takasago Industry Co Ltd Japan

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Thermcraft Inc NC
Wistra GmbH Germany

Kilns, Test/Lab

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Ceramic Services Inc PA
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FCT Systeme GmbH Germany
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Harrop Industries Inc OH

Keith Co CA
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Kilns, Tunnel (Continuous)

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 CM Furnaces Inc NJ
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 Fraunhofer Institute for Ceramic Technologies and Systems
 IKTS Germany
 Massachusetts Inst of Technology MA
 Missouri University of Science and Technology MO

Degree Programs, Glass Engrg Science



Alfred University NY See ad on page Inside back, 40, 91
 Fraunhofer Institute for Ceramic Technologies and Systems
 IKTS Germany

Degree Programs, Materials Science

Alfred University NY See ad on page Inside back, 40, 91
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 Induceric Canada
 Morgan Technical Ceramics Auburn CA
 Precision Ferrites and Ceramics Inc CA

Conductors

AdTech Ceramics TN
 CerPoTech AS Norway
 ESL ElectroScience PA
 Master Bond Inc NJ
 NorECs AS Norway

Crystals

Induceric Canada
 Kyocera International Inc CA
 Momentive Performance Materials Inc NY
 MSE Supplies AZ
TevTech LLC MA

See ad on page 99

Dielectrics

Agostyx OR
 AVX Corp SC
 Centerline Technologies MA
 CerPoTech AS Norway
 ENrG Inc NY
 ESL ElectroScience PA
 Euro Support Advanced Materials The Netherlands
 Gwent Electronic Materials Ltd UK
 Morgan Advanced Materials CA
 NGK Spark Plug Co Ltd Japan
 Pacific Ceramics Inc CA
 Advanced Ceramic Technology CA

Ferrites & Ferromagnetics

Ferro Ceramic Grinding Inc MA
 Pacific Ceramics Inc CA
 Precision Ferrites and Ceramics Inc CA
 Spontaneous Materials CO

Filters, Dielectric

CerPoTech AS Norway
 Euro Support Advanced Materials The Netherlands
 Murata Manufacturing Co Ltd Japan

**Trans-Tech Inc a subsidiary of
 Skyworks Solutions Inc MD**

See ad on page 83

Fuel Cells, Solid Oxide

AdTech Ceramics TN
 Associated Ceramics & Technology Inc PA
 Bharat Heavy Electricals Ltd India
 Cancarb Limited Canada
 CerPoTech AS Norway
 ENrG Inc NY

ESL ElectroScience PA
 Euro Support Advanced Materials The Netherlands
 Gwent Electronic Materials Ltd UK
 Morgan Technical Ceramics Auburn CA
 Nexceris LLC OH
 NorECs AS Norway

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See ad on page 83

High-Voltage Insulators

Akron Porcelain & Plastics Co OH
 Bharat Heavy Electricals Ltd India
 Ceramco Inc NH
 CeramTec North America Corp SC
 Du-Co Ceramics Company PA
 Elcon Precision LLC CA
 Morgan Technical Ceramics Auburn CA
 Precision Ferrites and Ceramics Inc CA
 Xiamen Innovacera Advanced Materials Co Ltd China

Hybrid Circuits & Packages

AdTech Ceramics TN
 AVX Corp SC
 Precision Ferrites and Ceramics Inc CA
 Xiamen Innovacera Advanced Materials Co Ltd China

IC Packages

AdTech Ceramics TN
 Kyocera International Inc CA
 NGK Spark Plug Co Ltd Japan

Insulators, Electrical/Electronic

Accuratus Corp NJ
 AdTech Ceramics TN
AdValue Technology LLC AZ See ad on page 67
 Akron Porcelain & Plastics Co OH
 Blasch Precision Ceramics Inc NY
 Ceramco Inc NH
 CeramTec North America Corp SC
 CerCo LLC OH
 Du-Co Ceramics Company PA
 ER Advanced Ceramics Inc OH
 ESL ElectroScience PA
 Federal-Mogul MI
 Ferro Ceramic Grinding Inc MA
 Maryland Ceramic & Steatite Co Inc MD
 Materion Ceramics AZ
 Morgan Technical Ceramics Auburn CA
 NEVZ-Ceramics Close JSC Russia
 P-Ker Engineering NY
 Precision Ferrites and Ceramics Inc CA
 Sonya Ceramics (Export Division) India
 Superior Technical Ceramics Corp VT
 Toto Ltd Japan
 Xiamen Innovacera Advanced Materials Co Ltd China
 Zircoa Inc OH

Magnets

Spontaneous Materials CO

Microwave Packages

AdTech Ceramics TN
 Kyocera International Inc CA
 Precision Ferrites and Ceramics Inc CA

Multilayer Ceramic Capacitors

Euro Support Advanced Materials The Netherlands
 Murata Manufacturing Co Ltd Japan

Multilayer Ceramics, AIN

AdTech Ceramics TN
 NEVZ-Ceramics Close JSC Russia
 Xiamen Innovacera Advanced Materials Co Ltd China

Multilayer Ceramics, Custom

AdTech Ceramics TN
 EBL Products Inc CT
 ENrG Inc NY
 Euro Support Advanced Materials The Netherlands
 Piezo by Graco OH
 Xiamen Innovacera Advanced Materials Co Ltd China

Piezoelectrics

APC International Ltd PA
 AVX Corp SC
 EBL Products Inc CT
 Meggitt Piezo Technologies IN
 Morgan Advanced Materials CA
 Sparkler Ceramics Pvt Ltd India

Resistors, Thick-Film

ESL ElectroScience PA
 Murata Manufacturing Co Ltd Japan

Resonators

AVX Corp SC
 Murata Manufacturing Co Ltd Japan
 NGK Spark Plug Co Ltd Japan

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See ad on page 83

RF Components

AdTech Ceramics TN
 Advanced Ceramic Technology CA
 Advanced Energy CO
 Murata Manufacturing Co Ltd Japan
 Precision Ferrites and Ceramics Inc CA

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See ad on page 83

Semiconductors

Cancarb Limited Canada
 Elcon Precision LLC CA
 Momentive Performance Materials Inc NY
 NEVZ-Ceramics Close JSC Russia
 Semiconductor Energy Laboratory Co Ltd Japan
 Toto Ltd Japan

Sensors

AdTech Ceramics TN
 AVX Corp SC
 Bullen OH
 CeramTec North America Corp SC
 EBL Products Inc CT
 ENrG Inc NY
 Gwent Electronic Materials Ltd UK
 Murata Manufacturing Co Ltd Japan
 Neoptix Canada
 Optocon AG Germany
 Piezo by Graco OH
 Quality Thermistor Inc ID
 Sparkler Ceramics Pvt Ltd India
 Technisonic Research Inc CT

Spark Plugs

Associated Ceramics & Technology Inc PA
 CerCo LLC OH
 Federal-Mogul MI
 Gwent Electronic Materials Ltd UK
 NGK Spark Plug Co Ltd Japan

Substrates, Alumina

Accuratus Corp NJ

Substrates, Alumina

Actech Precision Ceramic (HK) Limited China
 AdTech Ceramics TN

Bullen OH
 Centerline Technologies MA
 CeramTec North America Corp SC
 CoorsTek CO
 Du-Co Ceramics Company PA
 Ferro Ceramic Grinding Inc MA
 Laserage Technology Corp IL
 NEVZ-Ceramics Close JSC Russia
 NGK Spark Plug Co Ltd Japan
 Ortech Inc CA
 Saint-Gobain NorPro OH
 Toto Ltd Japan
 Valley Design Corp MA
 Xiamen Innovacera Advanced Materials Co Ltd China

Substrates, Aluminum Nitride

Accuratus Corp NJ
 Actech Precision Ceramic (HK) Limited China
 AdTech Ceramics TN
 Bullen OH
 Centerline Technologies MA
 CoorsTek CO
 Laserage Technology Corp IL
 MSE Supplies AZ
 NEVZ-Ceramics Close JSC Russia
 Ortech Inc CA
 Starfire Systems Inc NY
 Valley Design Corp MA
 Xiamen Innovacera Advanced Materials Co Ltd China

Substrates, Glass

Accuratus Corp NJ
 Bullen OH
 Centerline Technologies MA
 Laserage Technology Corp IL
 RISE Research Institutes of Sweden RISE Glass Sweden
 Saint-Gobain Recherche France
 Valley Design Corp MA

New Advanced Research Capabilities at Alfred, NY

▪ Ultrafast Materials Science and Engineering Laboratory (U-Lab)

- Femtosecond Scientific XL 500 (FEMTOLASERS Produktions GmbH, Fernkornigasse, Austria) - Pulse energy of 500 nJ, pulse duration less than 50 fs, and repetition rate of 5.1 MHz

▪ Terahertz Science and Engineering Laboratory (T-Lab)

- Terahertz time-domain spectroscopy and imaging (THz-TDS; Teraview TPS Spectra 3000, Teraview, Cambridge, UK)
- Custom hybrid scanner THz system at 100 & 280GHz, Terasense Group, Inc.

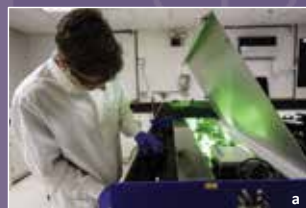
▪ 3D-Printing of Materials

- Lithoz CeraFab 8500-Lithography-Based Ceramic Manufacturing System (LCM)

▪ Gyrotron Laboratory (G-Lab)

- Gyrotron - 95 GHz/10 kW system (Bridge 12 Technologies, LLC)

- a. Nicholas J. Tostanoski (BS '18, PhD '22) examines the femtosecond laser system at U-Lab.
 b. A view of sample holder of THz-TDS at T-Lab
 c. Nicholas J. Tostanoski (BS '18, PhD '22) loads a glass sample for THz measurements.
 d. Nathaniel L. Skeele (BS/BA '22) adjusts settings of dual-camera THz scanner at T-Lab.
 e. Lithoz CeraFab 8500 at Alfred
 f. 95 GHz/10 kW Gyrotron at G-Lab



Substrates, Other

Accuratus Corp NJ
 Akron Porcelain & Plastics Co OH
 Bullen OH
 Centerline Technologies MA
 CoorsTek CO
 Du-Co Ceramics Company PA
 ENrG Inc NY
 Materion Ceramics AZ
 MSE Supplies AZ
 NGK Spark Plug Co Ltd Japan
Trans-Tech Inc a subsidiary of
Skyworks Solutions Inc MD
 Valley Design Corp MA

See ad on page 83

Substrates, Silicon Carbide

Bullen OH
 Centerline Technologies MA
 Ferro Ceramic Grinding Inc MA
 Ortech Inc CA
 Toto Ltd Japan
 Valley Design Corp MA

Superconductors, High-Temperature

ENrG Inc NY
 Xiamen Innovacera Advanced Materials Co Ltd China

Tapes

Du-Co Ceramics Company PA
 ESL ElectroScience PA
 Euro Support Advanced Materials The Netherlands
 Haiku Tech Europe BV The Netherlands
 Haiku Tech Inc FL
 Maryland Ceramic & Steatite Co Inc MD

Thermistors

AVX Corp SC
 Gwent Electronic Materials Ltd UK
 Murata Manufacturing Co Ltd Japan
 Quality Thermistor Inc ID

Transducers

APC International Ltd PA
 CSC Force Measurement Inc MA
 EBL Products Inc CT
 Meggitt Piezo Technologies IN
 Neoptix Canada
 Piezo by Graco OH
 Sparkler Ceramics Pvt Ltd India
 Technisonic Research Inc CT

Transformers

Grand Power Systems formally Warner Power LLC MI
 RoMan Manufacturing MI

Ultrasonic Ceramics

APC International Ltd PA
 EBL Products Inc CT
 Meggitt Piezo Technologies IN
 Piezo by Graco OH

Varistors

AVX Corp SC
 Kyocera International Inc CA

■ FABRICATING & FINISHING**Abrasives**

Allied High Tech Products Inc CA
 Diacut Inc CO
 Diamond Industrial Tools Inc IL
 Dianamic Abrasive Products Inc MI
 Dunhua Zhengxing Abrasive Co Ltd China
 Dynacut Inc PA
 Electro Abrasives Corp NY
 Engis Corp IL
 FELDCO Intl CA
 Jet Edge Waterjet Systems MN
 Reade Advanced Materials RI
 Saint-Gobain Abrasives MA
 Sigmadiamant Spain
 Stahl USA Inc WI
 Suntech Advanced Ceramics (Shenzhen) Co Ltd China
 Washington Mills Electro Minerals Co NY

Brickmaking Equipment

Basic Machinery Co Inc NC
 EZG Manufacturing Inc OH
 Laeis GmbH Luxembourg
 Stedman Machine Co IN

Casting Equipment, Pressure

American Isostatic Presses OH
 Cerinnov France
 Cerlase France
 Dorst America Inc PA
 HED Intl Inc NJ
 Laguna Clay Co CA
 Maryland Ceramic & Steatite Co Inc MD

Casting Equipment, Tape

Haiku Tech Europe BV The Netherlands
 Haiku Tech Inc FL
 HED Intl Inc NJ

CNC Mills

Elcon Precision LLC CA
 Liberty Machinery Co IL
OptiPro Systems LLC NY
 Penn Tool Co NJ
 Suntech Advanced Ceramics (Shenzhen) Co Ltd China

See ad on page 93

Coating Equipment

Agostyx OR
 Allied High Tech Products Inc CA
 Cerakote Ceramic Coatings OR
 Dynacut Inc PA
 Haiku Tech Europe BV The Netherlands
 Haiku Tech Inc FL
 Liberty Machinery Co IL

Cold-End Coatings, Glass

RISE Research Institutes of Sweden RISE Glass Sweden

Controllers

Dorst America Inc PA
 General Glass Equipment Co NJ
 Laguna Clay Co CA
 Rockwell Automation Inc WI

Cutting Equipment

Basic Machinery Co Inc NC
 Diamond Industrial Tools Inc IL
 General Glass Equipment Co NJ
 Haiku Tech Inc FL
 Jet Edge Waterjet Systems MN
 Liberty Machinery Co IL
OptiPro Systems LLC NY
 Penn Tool Co NJ
 Sigmadiamant Spain
 Suntech Advanced Ceramics (Shenzhen) Co Ltd China

See ad on page 93

Cutting Tools

Diacut Inc CO
 Dynacut Inc PA
 Engis Corp IL
 Jet Edge Waterjet Systems MN
 New Tech Ceramics Inc IA
 Penn Tool Co NJ
 Sigmadiamant Spain

CVD Equipment

Advanced Energy CO
 Capovani Brothers Inc NY
 Centorr Vacuum Industries NH
 Liberty Machinery Co IL
 Strem Catalog, by Ascensus Specialties MA

Deburring Equipment

Engis Corp IL
 Liberty Machinery Co IL

Mohr Corp MI

Penn Tool Co NJ

See ad on page 85

Diamond Drills

Diamond Industrial Tools Inc IL
 Dianamic Abrasive Products Inc MI
 Greenlee Diamond Tool Co IL
 Mitsubishi Materials Corporation Japan

Diamond Hones

Diamond Industrial Tools Inc IL
 Dianamic Abrasive Products Inc MI
 Engis Corp IL
 Greenlee Diamond Tool Co IL
 Saint-Gobain Abrasives MA
 Stahl USA Inc WI

Diamond Saw Blades

Allied High Tech Products Inc CA
 Aremco Products Inc NY
 Comtrust Architectural Mesh Co Ltd China
 Diacut Inc CO
 Diamond Industrial Tools Inc IL
 Dianamic Abrasive Products Inc MI
 Dynacut Inc PA
 Engis Corp IL
 Greenlee Diamond Tool Co IL
 LECO Corp MI
 Liberty Machinery Co IL
 Saint-Gobain Abrasives MA
 Texers Technical Ceramics Inc Canada

Diamond Saws

Allied High Tech Products Inc CA
 Aremco Products Inc NY
 Capovani Brothers Inc NY
 Diacut Inc CO
 Dynacut Inc PA
 Greenlee Diamond Tool Co IL
 Liberty Machinery Co IL

Diamond Tools

Diamond Industrial Tools Inc IL
 Dianamic Abrasive Products Inc MI
 Engis Corp IL
 Greenlee Diamond Tool Co IL
 LECO Corp MI
 Mitsubishi Materials Corporation Japan
 Penn Tool Co NJ
 Saint-Gobain Abrasives MA
 Sigmadiamant Spain

Dicing Equipment

Aremco Products Inc NY
 Capovani Brothers Inc NY
 Diacut Inc CO

Diamond Industrial Tools Inc IL
Dynacut Inc PA
Liberty Machinery Co IL

Dies

Gasbarre Products Inc PA See ad on page 95
Ram Products Inc OH

Dressing Wheels, Diamond

Diacut Inc CO
Diamond Industrial Tools Inc IL
Dianamic Abrasive Products Inc MI
Dynacut Inc PA
Engis Corp IL
Greenlee Diamond Tool Co IL

Electroplating Equipment

Haiku Tech Inc FL
Liberty Machinery Co IL
Penn Tool Co NJ

Extruders

Aadvanced Machinery Inc MI
American Art Clay Co Inc IN
Basic Machinery Co Inc NC
Detroit Process Machinery MI
Dorst America Inc PA
Ipsen Ceramics IL
Laguna Clay Co CA

Mohr Corp MI See ad on page 85
North Star Equipment Inc WA
Peter Puggier Mfg Inc CA

Feeders

Ingredient Masters Inc OH See ad on page 101
Isoform Ltd UK
Mohr Corp MI See ad on page 85
Wyssmont Co NJ

Forming Equipment

American Isostatic Presses OH
ARBURG GmbH + Co KG Germany
Dorst America Inc PA
HED INTl Inc NJ
Ipsen Ceramics IL
Isoform Ltd UK
Lithoz GmbH NY
Mohr Corp MI See ad on page 85
Quintus Technologies LLC OH
Ram Products Inc OH

Glass Finishing Equipment

General Glass Equipment Co NJ
Liberty Machinery Co IL
Lithoz GmbH NY



OptiPro Systems LLC NY See ad on page 93

Glass Forming Equipment

General Glass Equipment Co NJ

Glass Shear Spray

RISE Research Institutes of Sweden RISE Glass Sweden

Glass Supplies

Ipsen Ceramics IL

Grinders, Centerless

Diamond Industrial Tools Inc IL
Liberty Machinery Co IL
Precision Ferrites and Ceramics Inc CA
Suntech Advanced Ceramics (Shenzhen) Co Ltd China

Grinders, Cylindrical

Diamond Industrial Tools Inc IL
Liberty Machinery Co IL
Suntech Advanced Ceramics (Shenzhen) Co Ltd China

Grinders, Finished Product

DCM Tech MN
Ipsen Ceramics IL
Liberty Machinery Co IL
OptiPro Systems LLC NY See ad on page 93
Stahl USA Inc WI

Grinding Wheels

Allied High Tech Products Inc CA
Diacut Inc CO
Diamond Industrial Tools Inc IL
Dynacut Inc PA
Engis Corp IL
Greenlee Diamond Tool Co IL
Penn Tool Co NJ
Sigmadiamant Spain
Stahl USA Inc WI

Hydraulic Systems

Isoform Ltd UK
Ram Products Inc OH

Injection-Molding Equipment

ARBURG GmbH + Co KG Germany
Goceram AB Sweden

Mohr Corp MI See ad on page 85

Rockwell Automation Inc WI
Suntech Advanced Ceramics (Shenzhen) Co Ltd China

Jigging Equipment

Cerinnov France
Ram Products Inc OH

Lapping Equipment

Allied High Tech Products Inc CA
Capovani Brothers Inc NY
Diamond Industrial Tools Inc IL
Dynacut Inc PA
Engis Corp IL
Liberty Machinery Co IL
OptiPro Systems LLC NY See ad on page 93
Sigmadiamant Spain
Stahl USA Inc WI

Lapping Supplies

Allied High Tech Products Inc CA
Diamond Industrial Tools Inc IL
Dunhua Zhengxing Abrasive Co Ltd China
Engis Corp IL
FELDCO Intl CA
Stahl USA Inc WI

Laser Scrubbers

Centerline Technologies MA
Cerlase France
Lasera Technology Corp IL

Machining Equipment

Dynacut Inc PA
Ferro Ceramic Grinding Inc MA
International Ceramic Engineering MA
Liberty Machinery Co IL

MACHINING HARD CERAMICS HAS NEVER BEEN FASTER



Pentagon side: 27mm
Part thickness: 1.7mm
Hole dia: 0.8mm

5 AXIS MACHINING
OF GEODESIC DOME

MACHINING TIME:
LESS THAN 1 MIN PER HOLE

OptiSonic™ Series Ultrasonic Machining Centers

- Available in 500, 1100 & 1200mm of X travel
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- IntelliSonic™ technology maintains peak ultrasonic machining performance
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OptiPro Systems LLC NY
Penn Tool Co NJ
Stahli USA Inc WI

See ad on page 93

Mandrels, Diamond

Diacut Inc CO
Diamond Industrial Tools Inc IL
Dianamic Abrasive Products Inc MI
Engis Corp IL
Greenlee Diamond Tool Co IL

Molds, Case

Petro Mold Company PA
Ram Products Inc OH

Molds, Ceramic-Forming

Akron Porcelain & Plastics Co OH
Cerinnov France
Cerlase France
Goceram AB Sweden
Ipsen Ceramics IL
Isoform Ltd UK
Laeis GmbH Luxembourg
Laguna Clay Co CA
Petro Mold Company PA
Ram Products Inc OH
Viridis3D LLC MA

Molds, Models

Petro Mold Company PA
Ram Products Inc OH
Viridis3D LLC MA

Plasma Etching Systems

Advanced Energy CO
Capovani Brothers Inc NY
Liberty Machinery Co IL

Pneumatic Systems

Cyclonaire Corp NE
Ingredient Masters Inc OH
Ram Products Inc OH
Young Industries Inc PA

See ad on page 101

Polishing Equipment

Allied High Tech Products Inc CA
Capovani Brothers Inc NY
Diamond Industrial Tools Inc IL
Dynacut Inc PA
Engis Corp IL
LECO Corp MI
Liberty Machinery Co IL
OptiPro Systems LLC NY
Penn Tool Co NJ
Sigmadiamant Spain
Stahli USA Inc WI

See ad on page 93

Polishing Powder & Supplies

Baikowski Malakoff Inc NC
C&L Development Corp CA
Dianamic Abrasive Products Inc MI
Engis Corp IL
Sigmadiamant Spain
Stahli USA Inc WI

Presses, Compacting

Detroit Process Machinery MI
Digital Press Inc PA
Dorst America Inc PA
Gasbarre Products (PTX Pentronix) PA

See ad on page 95



Gasbarre Products Inc PA
Mohr Corp MI
Quintus Technologies LLC OH

See ad on page 95

See ad on page 85



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See ad on page 83

Presses, Dry

Advanced Machinery Inc MI
Dorst America Inc PA

Gasbarre Products Inc PA
Maryland Ceramic & Steatite Co Inc MD
Suntech Advanced Ceramics (Shenzhen) Co Ltd China

See ad on page 95

Presses, Extrusion

Dorst America Inc PA
Maryland Ceramic & Steatite Co Inc MD
Mohr Corp MI
Peter Pugger Mfg Inc CA

See ad on page 85

Presses, Hot

American Isostatic Presses OH
Centorr Vacuum Industries NH
FCT Ingenieurkeramik GmbH Germany
FCT Systeme GmbH Germany
Materials Research Furnaces Inc NH
Oxy-Gon Industries Inc NH
Refrac Systems AZ

See ad on page 89

Presses, Hot Isostatic

American Isostatic Presses OH
AVS Inc MA
FCT Ingenieurkeramik GmbH Germany
Quintus Technologies LLC OH

Presses, Hydraulic

Advanced Machinery Inc MI
ARBURG GmbH + Co KG Germany
AVS Inc MA
Capovani Brothers Inc NY
Digital Press Inc PA
Dorst America Inc PA
Gasbarre Products Inc PA
Laeis GmbH Luxembourg
Materials Research Furnaces Inc NH
Mohr Corp MI
Ram Products Inc OH

See ad on page 95

See ad on page 85

Presses, Isostatic

Advanced Machinery Inc MI
American Isostatic Presses OH
Capovani Brothers Inc NY
Cerinnov France
Cerlase France
Detroit Process Machinery MI
Dorst America Inc PA
Gasbarre Products (PTX Pentronix) PA

See ad on page 95



Gasbarre Products Inc PA
Haiku Tech Europe BV The Netherlands

See ad on page 95

Haiku Tech Inc FL
Isoform Ltd UK
Mohr Corp MI
Quintus Technologies LLC OH
RocCera LLC NY
Suntech Advanced Ceramics (Shenzhen) Co Ltd China

See ad on page 85

Presses, Other

ARBURG GmbH + Co KG Germany
Isoform Ltd UK

Presses, Pressure Casting

Cerlase France
Dorst America Inc PA
Peter Pugger Mfg Inc CA
Ram Products Inc OH

Presses, Refractory Shapes

Laeis GmbH Luxembourg

Presses, Rotary

Advanced Machinery Inc MI

Presses, Rotary

Materials Research Furnaces Inc NH

Presses, Tile (Ceramic)

Laeis GmbH Luxembourg
Peter Pugger Mfg Inc CA

Pug Mills

Advanced Machinery Inc MI
Basic Machinery Co Inc NC
Dorst America Inc PA
Mohr Corp MI
Peter Pugger Mfg Inc CA
Sheffield Pottery MA
Young Industries Inc PA

See ad on page 85

PVD Equipment

Capovani Brothers Inc NY
Liberty Machinery Co IL
Teeter Marketing Services LLC FL

Roofing Tile Machinery

Laeis GmbH Luxembourg

Setting Equipment

Basic Machinery Co Inc NC

Slab Rollers

North Star Equipment Inc WA

Spray Booths

Treibacher Industrie AG Austria

Sputtering Equipment

Advanced Energy CO
Capovani Brothers Inc NY
FCT Ingenieurkeramik GmbH Germany

Superabrasives

Diamond Industrial Tools Inc IL
Dynacut Inc PA

Engis Corp IL
Greenlee Diamond Tool Co IL
Liberty Machinery Co IL
Teeter Marketing Services LLC FL

Surface Modification Systems

Teeter Marketing Services LLC FL

Tilemaking Equipment

Basic Machinery Co Inc NC
Peter Pugger Mfg Inc CA
Ram Products Inc OH

Tools, Modeling

Sheffield Pottery MA
Viridis3D LLC MA

Turning Machines, Insulator

Liberty Machinery Co IL

Ultrasonic Machining Equipment

Bullen OH
International Ceramic Engineering MA
Liberty Machinery Co IL



OptiPro Systems LLC NY

See ad on page 93

Used Equipment

Aadvanced Machinery Inc MI
Basic Machinery Co Inc NC
Capovani Brothers Inc NY
Cerinnov France
Diamond Industrial Tools Inc IL
Dorst America Inc PA
Dynacut Inc PA
Liberty Machinery Co IL
Mohr Corp MI
Ram Products Inc OH
Viridis3D LLC MA

See ad on page 85

Vibratory Finishing Equipment

Capovani Brothers Inc NY
Liberty Machinery Co IL
Penn Tool Co NJ
Rockwell Automation Inc WI

Weighing/Scales

Optimation - Klug Systems NY

Wheels, Cutoff & Grinding

Diacut Inc CO
Diamond Industrial Tools Inc IL
Dianamic Abrasive Products Inc MI
Dynacut Inc PA
Engis Corp IL
Greenlee Diamond Tool Co IL
LECO Corp MI
Liberty Machinery Co IL
Penn Tool Co NJ

Wheels, Diamond

Aremco Products Inc NY
Diacut Inc CO
Diamond Industrial Tools Inc IL
Dianamic Abrasive Products Inc MI
Dynacut Inc PA

Engis Corp IL
Greenlee Diamond Tool Co IL
LECO Corp MI
Sigmadiamant Spain
Stahli USA Inc WI

GLASS PRODUCTS

Automotive Glass

Arkema Inc PA
RISE Research Institutes of Sweden RISE Glass Sweden
Saint-Gobain Recherche France
Schott North America Inc NY

Beads/Spheres

Bekeson Glass LLC MS
Ceradyne Inc a 3M Co KY
Maryland Ceramic & Steatite Co Inc MD



Mo-Sci Corp MO

See ad on page 97

Bioglass

Ceradyne Inc a 3M Co KY
Matexcel NY



Mo-Sci Corp MO

See ad on page 97

RISE Research Institutes of Sweden RISE Glass Sweden
Specialty Glass Inc FL

Borosilicate Glass

Bekeson Glass LLC MS
Bullen OH
Elan Technology GA
Garg Process Glass India Pvt Ltd India
RISE Research Institutes of Sweden RISE Glass Sweden
Schott North America Inc NY
Specialty Glass Inc FL
Valley Design Corp MA

Chemically Strengthened Glass

Arkema Inc PA
Garg Process Glass India Pvt Ltd India
RISE Research Institutes of Sweden RISE Glass Sweden
Saint-Gobain Recherche France
Saxon Glass Technologies Inc NY
Schott North America Inc NY
Vesuvius SC

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ELECTRIC PRESSES**
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Container Glass

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 Cerinnox France
 Owens-Illinois Inc OH
 RISE Research Institutes of Sweden RISE Glass Sweden
 Saint-Gobain Recherche France
 Vesuvius SC

Fibers, Continuous

Saint-Gobain Recherche France
 Verity Technical Consultants LLC OH

Fibers, Optical

Adamant Co Ltd Japan
 Corning Incorporated NY
 Optocon AG Germany
 Schott North America Inc NY

Flat & Safety Glass

Arkema Inc PA
 RISE Research Institutes of Sweden RISE Glass Sweden
 Saint-Gobain Recherche France
 Vesuvius SC

Fused Silica Glass

Accuratus Corp NJ
 Arkema Inc PA
 Bullen OH
 Ferro Ceramic Grinding Inc MA
 Imerys Refractory Minerals GA
 RISE Research Institutes of Sweden RISE Glass Sweden
 Valley Design Corp MA

Glass-Ceramics

Accuratus Corp NJ
 Advanced Ceramic Technology CA
 Arkema Inc PA
 Bekeson Glass LLC MS
 Bullen OH
 Cerlase France
 Elan Technology GA
 Ivoclar Vivadent Inc Principality of Liechtenstein
 Petro Mold Company PA
 PremaTech Advanced Ceramics MA
 Schott North America Inc NY
 Specialty Glass Inc FL
 StudioLX - Home Decor IL
TevTech LLC MA See ad on page 99
 Texers Technical Ceramics Inc Canada
 Valley Design Corp MA
 Xiamen Innovacera Advanced Materials Co Ltd China

Glass-to-Metal Seals

Bekeson Glass LLC MS
 Elan Technology GA
 ESL ElectroScience PA
 RISE Research Institutes of Sweden RISE Glass Sweden
 Schott North America Inc NY
 Specialty Glass Inc FL

Laboratory & Technical Glass

Arkema Inc PA
 Garg Process Glass India Pvt Ltd India
 LECO Corp MI
 RISE Research Institutes of Sweden RISE Glass Sweden
 Saxon Glass Technologies Inc NY
 Schott North America Inc NY
 Specialty Glass Inc FL
TevTech LLC MA See ad on page 99

Laminated Glass

Arkema Inc PA
 RISE Research Institutes of Sweden RISE Glass Sweden
 Vesuvius SC

Laser Glasses

Cerinnox France
 Israel Ceramic & Silicate Inst Israel
 RISE Research Institutes of Sweden RISE Glass Sweden

Lenses

TevTech LLC MA See ad on page 99

Lighting

Osram Sylvania Inc MA

Manufacturing

Bekeson Glass LLC MS

Mirrors

Valley Design Corp MA

Optical & Optoelectronic Ceramics

NEVZ-Ceramics Close JSC Russia
 Specialty Glass Inc FL
TevTech LLC MA See ad on page 99
 Vesuvius SC

Optical Substrates

Bullen OH
 FELDCO Intl CA
 Schott North America Inc NY
 Specialty Glass Inc FL
 Valley Design Corp MA
 Vesuvius SC

Optical Thin Films

Agostyx OR
 FELDCO Intl CA
 Schott North America Inc NY
TevTech LLC MA See ad on page 99

Solar

Ceradyne Inc a 3M Co KY
 FELDCO Intl CA
TevTech LLC MA See ad on page 99
 Texers Technical Ceramics Inc Canada
 Vesuvius SC

Specialty Glass

Bekeson Glass LLC MS
 Ceradyne Inc a 3M Co KY
 Corning Incorporated NY
 Fusion Ceramics Inc OH
 Garg Process Glass India Pvt Ltd India
 Israel Ceramic & Silicate Inst Israel
 Keeling & Walker Ltd UK
 Refrac Systems AZ
 RISE Research Institutes of Sweden RISE Glass Sweden
 Saint-Gobain Recherche France
 Saxon Glass Technologies Inc NY
 Schott North America Inc NY
 Specialty Glass Inc FL
 Vesuvius SC

Technical Glass

Bekeson Glass LLC MS
 Ceradyne Inc a 3M Co KY
 Elan Technology GA
 RISE Research Institutes of Sweden RISE Glass Sweden
 Saxon Glass Technologies Inc NY
 Schott North America Inc NY
 Specialty Glass Inc FL
 Vesuvius SC

Tubing & Rod

AdValue Technology LLC AZ See ad on page 67
 Garg Process Glass India Pvt Ltd India
 Morgan Advanced Materials CA
 Specialty Glass Inc FL

■ LABORATORY EQUIPMENT & SUPPLIES**Chemicals**

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 Bayville Chemical Supply Co Inc NY
 Lubrizol Performance Coating OH
 Nanofilm OH
 RocCera LLC NY

Colorimeters

HunterLab VA

Density Measurement Instruments

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 Particle Technology Labs IL
 Penn Tool Co NJ
 Quantachrome Instruments FL
 RocCera LLC NY

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 Penn Tool Co NJ
 Rockwell Automation Inc WI
 Siemens Process Industries and Drives GA

Dimension Measurement Instruments

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 EIRICH Machines Inc IL
 Goceram AB Sweden
 Recco Furnaces CA
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Glass Testing Instruments

Mo-Sci Corp MO See ad on page 97
 RISE Research Institutes of Sweden RISE Glass Sweden
 Taber Industries NY

Glassware

AdValue Technology LLC AZ See ad on page 67
 Garg Process Glass India Pvt Ltd India
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Glossimeters

Horiaba Instruments Inc CA

Hardness Measurement Instruments

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 Nanoscience Instruments AZ
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Hot Plates

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 Zhengzhou Mission Ceramic Products Co Ltd China

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CoorsTek CO
 Materion Ceramics AZ
 McDanel Advanced Ceramic Technologies LLC PA
 Robocasting Enterprises LLC NM
 Xiamen Innovacera Advanced Materials Co Ltd China
 Zhengzhou Mission Ceramic Products Co Ltd China

Lab Furnace Tubes

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 McDanel Advanced Ceramic Technologies LLC PA
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 Trent Inc PA
 Verder Scientific Inc PA
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 Spectronics Corp NY

Mechanical Property Measurement Instruments

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 Buehler Ltd IL
 BuzzMac Intl LLC ME
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 Dalmia Inst of Scientific & Industrial Research India
 TA Instruments DE

Microscopes, Interference

Buehler Ltd IL
 Carl Zeiss Microimaging Inc NY

Microscopes, Other

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 Carl Zeiss Microimaging Inc NY
 Nanoscience Instruments AZ
 TA Instruments DE

Microscopes, Polarizing

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MSE Supplies AZ
Stedman Machine Co IN
Union Process OH

Mixers, Laboratory

B&P Littleford MI
Custom Processing Services PA
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EIRICH Machines Inc IL
Fritsch GmbH - Milling and Sizing Germany
Lancaster Products PA
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Optical Comparitors

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Porosimeters

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Particle Technology Labs IL
Quantachrome Instruments FL

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Fritsch Milling & Sizing Inc NC
Quantachrome Instruments FL

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Datapaq Inc NH
Rockwell Automation Inc WI
Siemens Process Industries and Drives GA

Rheometers

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TA Instruments DE

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Micromeritics Instrument Corp GA
Ram Products Inc OH
Verder Scientific Inc PA

Thermometers

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Viscosity Measurement Instruments

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Markets

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Harrop Industries Inc OH See ad on page 58

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SEMTECH Solutions Inc MA
Technology Assessment and Transfer Inc (TA&T) MD

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Netzsch Instruments NA LLC MA See ad on page 111
Particle Technology Labs IL
P-Ker Engineering NY
Setaram Instrumentation France
TA Instruments DE
Technology Assessment and Transfer Inc (TA&T) MD

Transmission Electron Microscopy

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High Temperature Materials Lab TN



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Optimization - Klug Systems NY
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Siemens Process Industries and Drives GA
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Nol-Tec Systems Inc MN
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Rockwell Automation Inc WI
Siemens Process Industries and Drives GA

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Nol-Tec Systems Inc MN
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See ad on page 101

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Mohr Corp MI
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See ad on page 105

See ad on page 85

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Applicon Co IN
Mohr Corp MI

See ad on page 85

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See ad on page 101

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Ingredient Masters Inc OH

See ad on page 101

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See ad on page 101

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Wyssmont Co NJ

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Crushers, Jaw

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Dryers, Rotating Tray

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Feeders, Batch

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Mohr Corp MI See ad on page 85
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Wyssmont Co NJ

Grinders

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Diamond Industrial Tools Inc IL
Fluid Energy Processing & Equipment Co PA
Fritsch GmbH - Milling and Sizing Germany
Fritsch Milling & Sizing Inc NC
Glen Mills Inc NJ See ad on page 105
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Federal-Mogul MI
Fritsch GmbH - Milling and Sizing Germany
Fritsch Milling & Sizing Inc NC
Glen Mills Inc NJ See ad on page 105
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MSE Supplies AZ
Netzsch Premier Technologies LLC PA
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Hydraulic Systems

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Impeller, Mixing

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Lancaster Products PA
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Nol-Tec Systems Inc MN
North Star Equipment Inc WA
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Penn Tool Co NJ
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Stedman Machine Co IN
Union Process OH

Mills, Attritor

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Mills, Ball & Pebble

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Mills, Hammer

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Lancaster Products PA
Mixer Systems Inc WI

See ad on page 105

Mohr Corp MI

Netzsch Premier Technologies LLC PA
Nol-Tec Systems Inc MN
OPF Enterprises TX
Optimation - Klug Systems NY
Peter Pugger Mfg Inc CA

See ad on page 85

Mixers, Drum

Glen Mills Inc NJ
Hockmeyer Equipment Corp NC

See ad on page 105

Mixers, Pneumatic

Carolina Material Technologies NC
EIRICH Machines Inc IL
Nol-Tec Systems Inc MN

Mixers, Portable

Jiffy Mixer Co Inc CA
Mixer Systems Inc WI
Peter Pugger Mfg Inc CA

Mixers, Refractory

Applicon Co IN
B&P Littleford MI
EIRICH Machines Inc IL
EZG Manufacturing Inc OH

Laeis GmbH Luxembourg
Lancaster Products PA
Mixer Systems Inc WI
Netzsch Premier Technologies LLC PA
Peter Pugger Mfg Inc CA
Reed Gunite & Shotcrete Equipment CA

Mixers, Vacuum

Applicon Co IN
EIRICH Machines Inc IL
Netzsch Premier Technologies LLC PA
Peter Pugger Mfg Inc CA

Mixing Equipment

Advanced Machinery Inc MI
B&P Littleford MI
Carolina Material Technologies NC
Custom Processing Services PA
Detroit Process Machinery MI
EIRICH Machines Inc IL
ER Advanced Ceramics Inc OH
General Glass Equipment Co NJ

**Glen Mills Inc NJ**

Goceram AB Sweden
Hockmeyer Equipment Corp NC
Laguna Clay Co CA

See ad on page 105

Lancaster Products PA
Mixer Systems Inc WI

Mohr Corp MI

Netzsch Premier Technologies LLC PA
OPF Enterprises TX
Peter Pugger Mfg Inc CA
Resodyn Acoustic Mixers Inc MT
Young Industries Inc PA

See ad on page 85

Nozzles

CerCo LLC OH
Dunhua Zhengxing Abrasive Co Ltd China
Maryland Ceramic & Steatite Co Inc MD

Packaging & Packaging Equipment

Basic Machinery Co Inc NC

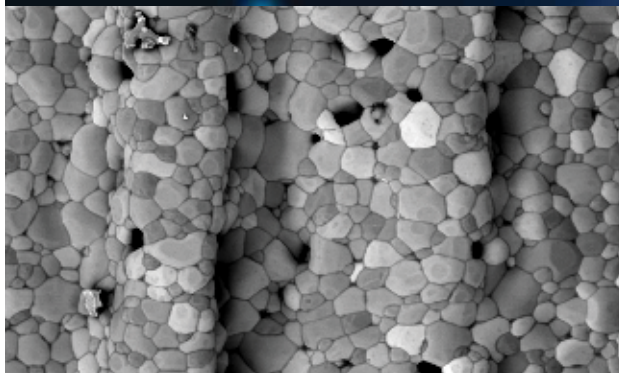


Tempo Plastic CA

Pneumatic Systems

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Nol-Tec Systems Inc MN
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Ingredient Masters Inc OH See ad on page 101
 McGill AirClean OH
 Nol-Tec Systems Inc MN
 Norcross Viscosity Controls MI
 Optimization - Klug Systems NY
 Ram Products Inc OH
 Rockwell Automation Inc WI
 Siemens Process Industries and Drives GA

Pulverizers

Advanced Machinery Inc MI
 Applicon Co IN
 Basic Machinery Co Inc NC
 Fritsch GmbH - Milling and Sizing Germany
 Fritsch Milling & Sizing Inc NC
Glen Mills Inc NJ See ad on page 105
 Mixer Systems Inc WI
 Stedman Machine Co IN
 Williams Patent Crusher & Pulverizer Co Inc MO
 Wyssmont Co NJ

Pumps

ER Advanced Ceramics Inc OH
 Ram Products Inc OH
 Reed Gunite & Shotcrete Equipment CA

Pumps, Concrete

Reed Gunite & Shotcrete Equipment CA

Scale Systems

CSC Force Measurement Inc MA
 Mettler-Toledo Inc OH
 Nol-Tec Systems Inc MN
 Optimization - Klug Systems NY

Screens & Screening Equipment

Advanced Machinery Inc MI
 Basic Machinery Co Inc NC
 Cleveland Vibrator Co OH
 Control Instruments Corp NJ
 Detroit Process Machinery MI
 Fritsch GmbH - Milling and Sizing Germany
 Fritsch Milling & Sizing Inc NC
Glen Mills Inc NJ See ad on page 105
 JADCO Manufacturing, Inc PA
 Midwestern Industries Inc OH
Mohr Corp MI See ad on page 85
 Sico Engineering Works India

Separators

Fritsch GmbH - Milling and Sizing Germany
 Midwestern Industries Inc OH
 Williams Patent Crusher & Pulverizer Co Inc MO

Shredders

Basic Machinery Co Inc NC
 Fritsch GmbH - Milling and Sizing Germany
Glen Mills Inc NJ See ad on page 105
 Stedman Machine Co IN
 Williams Patent Crusher & Pulverizer Co Inc MO

Single-Wafer Packs

Tempo Plastic CA

Size Reduction Equipment

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 Custom Processing Services PA
 EIRICH Machines Inc IL
 ER Advanced Ceramics Inc OH
 Fluid Energy Processing & Equipment Co PA

Fritsch GmbH - Milling and Sizing Germany
Glen Mills Inc NJ See ad on page 105
 Lancaster Products PA
 Netzsch Premier Technologies LLC PA
 Raymond Bartlett Snow-Schneck Processing IL
 Stedman Machine Co IN
 Union Process OH
 Williams Patent Crusher & Pulverizer Co Inc MO
 Wyssmont Co NJ

Spray Dryers

Advanced Machinery Inc MI
 Arch Maintenance Services GA
 AVEKA MN
 Detroit Process Machinery MI
 Dorst America Inc PA
 Eian Technology GA
 Euro Support Advanced Materials The Netherlands
Mohr Corp MI See ad on page 85
 Spray Drying Systems Inc MD

Storage Equipment

Basic Machinery Co Inc NC

Storage Equipment

Cyclonaire Corp NE

Substrate Wafer Trays

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Vibrators

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 Cleveland Vibrator Co OH
 Optimization - Klug Systems NY
 Rockwell Automation Inc WI

Vibrators, Bin

Carolina Material Technologies NC
 Cleveland Vibrator Co OH
 Cyclonaire Corp NE

Weighing Equipment

Carolina Material Technologies NC
 CSC Force Measurement Inc MA
 Cyclonaire Corp NE
 Mettler-Toledo Inc OH
 Nol-Tec Systems Inc MN
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 Rockwell Automation Inc WI
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Weighing/Scales

Optimization - Klug Systems NY

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 Laeis GmbH Luxembourg
 Swindell Dressler Intl Co PA

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 ER Advanced Ceramics Inc OH

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 Cerinnov France
 Cerlase France
 GrainBound LLC PA
 Lucideon UK
 Maryland Ceramic & Steatite Co Inc MD
 Riedhammer GmbH Germany
Trans-Tech Inc a subsidiary of
Skyworks Solutions Inc MD See ad on page 83
 Viridis3D LLC MA

Combustion Systems

Air Products PA
 Swindell Dressler Intl Co PA

Decals & Decorating

Cerinnov France
 Cerlase France
 Gwent Electronic Materials Ltd UK

Drying & Firing

Basic Machinery Co Inc NC
 Ceramic Services Inc PA



Harrop Industries Inc OH See ad on page 58
 Swindell Dressler Intl Co PA
 Wistra GmbH Germany

Electronic Materials Production

Haiku Tech Europe BV The Netherlands
 Haiku Tech Inc FL
Trans-Tech Inc a subsidiary of
Skyworks Solutions Inc MD See ad on page 83

Environmental Control

Cyclonaire Corp NE
 Mixer Systems Inc WI
 Nol-Tec Systems Inc MN
 RoboVent MI
 Rockwell Automation Inc WI
 Saint-Gobain NorPro OH
 Tri-Mer Corp MI

Fabrication Shops

Maryland Ceramic & Steatite Co Inc MD

Glass Production

CelSian Glass & Solar BV The Netherlands
 General Glass Equipment Co NJ
 Optimization - Klug Systems NY

RISE Research Institutes of Sweden RISE Glass Sweden
Schott North America Inc NY
Tri-Mer Corp MI

Inspection Systems

CSC Force Measurement Inc MA
Fosbel Inc OH
Rockwell Automation Inc WI
Siemens Process Industries and Drives GA

Laboratories

Activation Laboratories Ltd Canada

Optical-Fiber Production

Ocean Optics Inc FL

Refractory Production

ER Advanced Ceramics Inc OH
Fosbel Inc OH
Laeis GmbH Luxembourg
Laguna Clay Co CA
Swindell Dressler Intl Co PA

Structural Ceramics Production

CerCo LLC OH
Maryland Ceramic & Steatite Co Inc MD
Swindell Dressler Intl Co PA
Takasago Industry Co Ltd Japan
TevTech LLC MA

See ad on page 99

Tile Production

Laeis GmbH Luxembourg
LIXIL Corporation Japan
Peter Pugger Mfg Inc CA

Whiteware Production

LIXIL Corporation Japan
Ram Products Inc OH
Swindell Dressler Intl Co PA

Alumina

Advanced Ceramic Technology CA
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Associated Ceramics & Technology Inc PA
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Bucher Emhart Glass SA Switzerland
Ceramco Inc NH
CeramTec-ETEC Germany
Dalmia Inst of Scientific & Industrial Research India
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ER Advanced Ceramics Inc OH
Fosbel Inc OH
General Material Industrial Co China
GrainBound LLC PA
IPS Ceramics LTD UK
Ipsen Ceramics IL
Magneco Metrel Inc IL
Maryland Refractories Co OH
Materion Ceramics AZ
Pacific Refractories Ltd India
Pibrico Company IL
Precision Ferrites and Ceramics Inc CA
Rath Inc DE
Refractory Minerals Co Inc PA
RHI US Ltd NY
Riverside Refractories Inc-Allied Mineral Products AL
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AZS

Bucher Emhart Glass SA Switzerland
Fosbel Inc OH
Magneco Metrel Inc IL
Monofrax LLC NY
RHI US Ltd NY

Backwalls

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Merkle International Inc IL

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RHI US Ltd NY

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Cerlase France
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Zenith China

See ad on page 83

Porcelain

Riedhammer GmbH Germany

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Allied Mineral Products Inc OH
Magneco Metrel Inc IL
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Vitcas Ltd UK

Aggregate

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Unifrax I LLC NY
Zircar Refractory Composites Inc NY

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Morgan Thermal Ceramics GA
RHI US Ltd NY
Saint-Gobain Ceramics & Plastics MA
Thermal Products Co Inc NY
Unifrax I LLC NY



Zircar Ceramics Inc NY
Zircar Refractory Composites Inc NY

Brick

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Cancarb Limited Canada
General Material Industrial Co China
HarbisonWalker Intl PA
IFB Insulating Firebrick Inc PA
Morgan Thermal Ceramics GA
Pacific Refractories Ltd India
RHI US Ltd NY
Sunrock Ceramics Co IL
Wistra GmbH Germany

Brick, Acid-Resisting

Pacific Refractories Ltd India
Vitcas Ltd UK

Brick, Fireclay

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Alsey Refractories Co MO
Pacific Refractories Ltd India
RHI US Ltd NY
Vitcas Ltd UK

Carbon

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Cancarb Limited Canada
Pacific Refractories Ltd India
Riedhammer GmbH Germany

Castable

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Alsey Refractories Co MO
Aremco Products Inc NY
Cancarb Limited Canada
Capital Refractories Ltd UK
Furnace Products & Services Inc PA
HarbisonWalker Intl PA
Industrial Ceramic Products Inc OH
Magneco Metrel Inc IL
Pacific Refractories Ltd India
Plibrico Company IL
Plibrico Japan Co Ltd Japan
Reno Refractories Inc AL
RHI US Ltd NY
Riverside Refractories Inc--Allied Mineral Products AL
Selee Corp NC
Vitcas Ltd UK
Zircar Refractory Composites Inc NY

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Dalmia Inst of Scientific & Industrial Research India
Furnace Products & Services Inc PA

**Gorka Cement Poland**

Kerneos Inc VA
Plibrico Company IL
Reno Refractories Inc AL
Unifrax I LLC NY
Vitcas Ltd UK

See ad on page 107

Clay Flux

Furnace Products & Services Inc PA
Peter Puggler Mfg Inc CA
RHI US Ltd NY

Coatings

Allied Mineral Products Inc OH
Aremco Products Inc NY
Elcon Precision LLC CA
Fosbel Inc OH
Furnace Products & Services Inc PA
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Gwent Electronic Materials Ltd UK
Inducerceramic Canada
Magneco Metrel Inc IL
Plibrico Japan Co Ltd Japan
Rath Inc DE
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Starfire Systems Inc NY
Thermal Products Co Inc GA
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Vitcas Ltd UK
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Zircar Refractory Composites Inc NY
ZYP Coatings Inc TN

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Ceramco Inc NH
CeramTec-ETEC Germany
Furnace Products & Services Inc PA
Industrial Ceramic Products Inc OH
Ipsen Ceramics IL

See ad on page 67

LECO Corp MI
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Materion Ceramics AZ
McDaniel Advanced Ceramic Technologies LLC PA
Progressive Technology Inc CA
Selee Corp NC
Silicon Carbide Products Inc NY
Zhengzhou Mission Ceramic Products Co Ltd China
Zircar Inc OH

Dead-Burned

Fluid Energy Processing & Equipment Co PA

Fiber Products

Allied Mineral Products Inc OH
Furnace Products & Services Inc PA
LECO Corp MI
Thermal Products Co Inc GA
Unifrax I LLC NY
Vitcas Ltd UK



Zircar Ceramics Inc NY

Filters, Molten Metal

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Inducerceramic Canada
Industrial Ceramic Products Inc OH
Selee Corp NC

Foundry

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Capital Refractories Ltd UK
Fosbel Inc OH
Industrial Ceramic Products Inc OH
Ipsen Ceramics IL
LECO Corp MI
Magneco Metrel Inc IL
Plibrico Company IL
Riverside Refractories Inc--Allied Mineral Products AL
Selee Corp NC
Silicon Carbide Products Inc NY
Zircar Refractory Composites Inc NY

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Furnace Products & Services Inc PA
Monofrax LLC NY
Saint-Gobain Ceramics & Plastics MA

Fused Spinel Refractories

Dalmia Inst of Scientific & Industrial Research India

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Ipsen Ceramics IL
Magneco Metrel Inc IL
RHI US Ltd NY
RISE Research Institutes of Sweden RISE Glass Sweden
Vesuvius SC

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Riedhammer GmbH Germany

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Maryland Refractories Co OH

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Plibrico Japan Co Ltd Japan
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Riverside Refractories Inc—Allied Mineral Products AL
Unifrax I LLC NY
Velco GmbH Germany

High-Alumina

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Plibrico Japan Co Ltd Japan
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RHI US Ltd NY
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Tethon 3D NE
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General Material Industrial CoChina
IFB Insulating Firebrick Inc PA
Laguna Clay Co CA
PSH Kilns & Furnaces Canada
RHI US LtdNY
Riedhammer GmbH Germany
Zircoa Inc OH

Insulation

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Du-Co Ceramics Company PA
Furnace Products & Services Inc PA
General Material Industrial Co China
HarrisonWalker Intl PA
Inducericam Canada
Plibrico Company IL
Plibrico Japan Co Ltd Japan
PSH Kilns & Furnaces Canada
Rath Inc DE

Reno Refractories Inc AL
RHI US Ltd NY
Thermal Products Co Inc GA
Unifrax I LLC NY
Vesuvius SC
Wistra GmbH Germany



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Zircar Refractory Composites Inc NY



Zircar Zirconia Inc NY

Insulation Board

Agni Fiber Boards Pvt Ltd India
Thermal Products Co Inc GA
Unifrax I LLC NY
Zircar Refractory Composites Inc NY

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Furnace Products & Services Inc PA
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Insulation Slabs, Vermiculite

IFB Insulating Firebrick Inc PA

Insulation, Microporous

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Kiln Furniture

Advanced Ceramic Technology CA
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Mortars

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 Vitcas Ltd UK

Mullite

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 IPS Ceramics LTD UK
 Magneco Metrel Inc IL
 McDanel Advanced Ceramic Technologies LLC PA
 Reade Advanced Materials RI
 RHI US Ltd NY
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 Unifrax I LLC NY

Nozzles

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 Blastcrete Equipment Co AL
 CeramTec-ETEC Germany
 FELDCO Intl CA
 Industrial Ceramic Products Inc OH
 Jyoti Ceramic Industries Pvt Ltd India
 LECO Corp MI
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 Silicon Carbide Products Inc NY
 Xiamen Innovacera Advanced Materials Co Ltd China
 Zircoa Inc OH

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 Unifrax I LLC NY

Plastic

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 Maryland Ceramic & Steatite Co Inc MD
 Plibrico Company IL
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 RHI US Ltd NY
 Riverside Refractories Inc—Allied Mineral Products AL

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 Capital Refractories Ltd UK
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 Plibrico Japan Co Ltd Japan
 RHI US Ltd NY
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 Selee Corp NC
 Silicon Carbide Products Inc NY
 Zircar Refractory Composites Inc NY

Ramming Mixes

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 Alsey Refractories Co MO
 Monofrax LLC NY
 Plibrico Company IL
 Plibrico Japan Co Ltd Japan
 RHI US Ltd NY
 Riverside Refractories Inc—Allied Mineral Products AL
 Selee Corp NC

Rods

Actech Precision Ceramic (HK) Limited China
AdValue Technology LLC AZ **See ad on page 67**
 Blasch Precision Ceramics Inc NY
 CerCo LLC OH
 Du-Co Ceramics Company PA
 Industrial Ceramic Products Inc OH
 LECO Corp MI
 McDanel Advanced Ceramic Technologies LLC PA
 Saint-Gobain Performance Ceramics & Refractories & Hexoloy SiC Materials MA
 Silicon Carbide Products Inc NY

Rollers

Keith Co CA
 Recco Furnaces CA
 Riedhammer GmbH Germany
 Saint-Gobain Performance Ceramics & Refractories & Hexoloy SiC Materials MA

Saggers

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 Blasch Precision Ceramics Inc NY
 Ceramco Inc NH
 IPS Ceramics LTD UK
 Ipsen Ceramics IL
 LECO Corp MI
 Magneco Metrel Inc IL
 Selee Corp NC
 Sunrock Ceramics Co IL

Setters

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 Blasch Precision Ceramics Inc NY
 Ceramco Inc NH
 Industrial Ceramic Products Inc OH
 Ipsen Ceramics IL
 LECO Corp MI
 Magneco Metrel Inc IL
 Maryland Ceramic & Steatite Co Inc MD
 Saint-Gobain Performance Ceramics & Refractories & Hexoloy SiC Materials MA
 Selee Corp NC
 Sunrock Ceramics Co IL

Silica

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 Dalmia Inst of Scientific & Industrial Research India
 Fosbel Inc OH
 Ipsen Ceramics IL
 Maryland Refractories Co OH
 RHI US Ltd NY
 Selee Corp NC
 Sibelco Benelux Belgium

Silicon Carbide

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 Bharat Heavy Electricals Ltd India
 Blasch Precision Ceramics Inc NY
 Cancarb Limited Canada
 CoorsTek CO
 Custom Processing Services PA
 Electro Abrasives Corp NY
 Fosbel Inc OH
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 Magneco Metrel Inc IL
 Momentive Performance Materials Inc NY
 Plibrico Company IL
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 Precision Ferrites and Ceramics Inc CA
 Reade Advanced Materials RI
 Riedhammer GmbH Germany
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 Selee Corp NC
 Silicon Carbide Products Inc NY
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 Goceram AB Sweden
 Industrial Ceramic Products Inc OH
 Magneco Metrel Inc IL
 McDanel Advanced Ceramic Technologies LLC PA

Refrac SystemsAZ
Riverside Refractories Inc–Allied Mineral Products AL

Spheres, Ceramic

Piezo by GracoOH

Tap Hole Clays

Cancarb Limited Canada
Riverside Refractories Inc–Allied Mineral Products AL
Vitcas Ltd UK

Textile



AdValue Technology LLC AZ See ad on page 67
Strem Catalog, by Ascensus Specialties MA
Thermal Products Co Inc GA

Tubes

AdValue Technology LLC AZ See ad on page 67
Bucher Emhart Glass SA Switzerland
Ceramco Inc NH
CeramTec-ETEC Germany
Industrial Ceramic Products Inc OH
Jyoti Ceramic Industries Pvt Ltd India
LECO Corp MI

Saint-Gobain Performance Ceramics & Refractories &
Hexoloy SiC Materials MA
Silicon Carbide Products Inc NY
Texers Technical Ceramics Inc Canada
Zhengzhou Mission Ceramic Products Co Ltd China
Zircar Refractory Composites Inc NY

Zircon

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Fosbel Inc OH
RHI US Ltd NY
Vitcas Ltd UK
Zircoa Inc OH

Zirconia

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ENrG Inc NY
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Lithoz GmbH NY
Precision Ferrites and Ceramics Inc CA
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RHI US Ltd NY
Selee CorpNC
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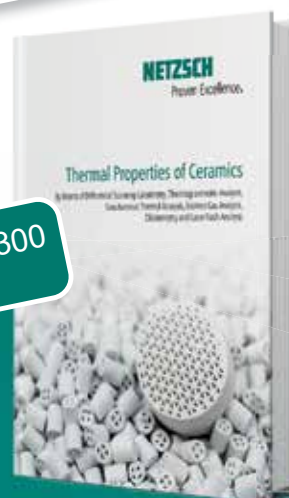
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<http://www.arlimin.com>
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Wholesale provider of raw materials to the ceramics, glass, and coatings industries.

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 550 Polaris Pkwy Ste 510
 Westerville OH 43082

<http://aaccm.org>
aaccm@ceramics.org

AACCM's member companies manufacture components from ceramic powders at U.S. operating facilities. Its purpose is to expand the market for U.S.-manufactured components by enhancing processes and quality and to increase awareness of ceramic applications.

ASSOCIATED CERAMICS & TECHNOLOGY INC +1 724-353-1585
 400 North Pike Rd
 Sarver PA 16055

<http://www.associatedceramics.com>
sales@associatedceramics.com

Associated Ceramics & Technology Inc is a custom manufacturer of ceramics composed of alumina, steatite, cordierite, spinel, wollastonite, mullite, and high performance materials such as zirconia and yttria-stabilized zirconia. Its engineers' knowledge of the physical and chemical properties of a finished product allow the company to provide excellent quality in applications pertaining to chemical, electrical, wear-resistant, automotive, appliances, and many others. The expansive production capabilities at ACT include more than 155 dry and isostatic presses, seven extrusion presses, 10 kilns, and pre- and post-sintered machining capabilities that are sure to satisfy a customer's every need.

ASTRAL MATERIAL INDUSTRIAL CO LTD +86 757-8266-7101
 Rm 2303 Block 1
 JunNing Bldg No 213 Funing Rd
 ChanCheng Dist
 FoShan 528000 China

<http://www.amic.biz>
sales@amic.biz

AMI produces thermal ceramics, technical ceramics for tile factories, sanitaryware factories, and tableware factories. We also supply to new energy industry, precision casting, chemical industry, and environmental protection industry. We are an ISO9001:2015 certified enterprise. AMI is dedicated to provide products and service with good quality and assist customers with cost.

ASTRO MET ADVANCED CERAMICS INC +1 513-772-1242
 9974 Springfield Pike
 Cincinnati OH 45215

<http://astromet.com>
fgorman@astromet.com

Established 1961. Manufacturers precision toleranced advanced ceramic components on a custom order basis per customer design with a focus on wear and corrosion applications. Materials include alumina, zirconia, ZTA, and Macor machinable ceramic.

ATLANTIC EQUIPMENT ENGINEERS +1 201-299-6476
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 PO Box 181
 Upper Saddle River NJ 07458

<http://micrometals.com>
info@micrometals.com

Manufactures and distribute high-purity metals, metal powders, oxides, and other compounds to meet the needs and material requirements of the R&D community.

AVALON ADVANCED MATERIALS INC +1 416-364-4938
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 Toronto M5H 3P5 Canada

<http://www.AvalonAM.com>
ilondon@avalonventures.com

Emerging Canadian producer of petalite concentrates well-suited for specialty glass/ceramic formulations demanding high purity lithium minerals. Avalon developed proprietary process technology to produce petalite products from its Separation Rapids mineral resource (near Kenora, Ontario, Canada). Avalon's standard petalite product (4.0-4.2% Li₂O) is notable for its low iron content and consistent SiO₂:Al₂O₃ ratio. The super petalite (>4.5% Li₂O) product also achieves exceptionally low levels of alkalis.

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 Woodbury MN 55125

<https://www.aveka.com>
aveka@aveka.com

AVEKA is a contract manufacturing and R&D company specializing in particle toll processing. Processing capabilities include drying, milling, blending, screening, and particle characterization. AVEKA is an ISO 9001:2015 registered company providing processing solutions from lab-scale samples to full-scale production for a wide variety of industries.

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 60 Fitchburg Rd
 Ayer MA 04132

<http://avsinc.com>
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Manufactures standard and custom vacuum furnaces. Debinding, sintering, hot isostatic or axial pressing, diffusion bonding in lab to production scale units. Vacuum to 2,500 psig. Specializes in custom-designed systems for advanced materials processing.

AVX CORP +1 843-448-9411
 1 AVX Blvd
 Fountain Inn SC 29644

<http://avx.com>
inquiry@avx.com

Established 1972. Manufactures multilayer ceramic capacitors for the electronics industry, including microminiature, multilayer monolithics in chips; radial- and axial-leaded, molded and conformal coated capacitors and tantalum capacitors.

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 1000 Hess Ave
 Saginaw MI 48601

<https://www.bplittleford.com>
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Manufactures processing equipment, including mixers, granulators, agglomerators, vacuum dryers, liquid dispersers, and pressure reactors. Also provides pilot-plant and lab equipment. Maintains a completely equipped test center to assist customers.

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Bakelite Synthetics is a leading global producer of phenolic specialty resins, aromatic polyols, molding compounds, and formaldehyde & derivatives. Bakelite is organized around four key end-markets (building materials, industrial applications, transportation, and chemical intermediates).

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<http://www.bayvillechemical.net>
info@bayvillechemical.net

Bayville Chemical is a supplier of ultrahigh-purity chemicals (organic and inorganic), ceramics, metals, optics, crystals, sputtering targets, evaporation and coating materials, and vitreous carbon. The company services small research, R&D, and production facilities.

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1001 Underwood Drive
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Ceramic Technological Institute, Corporate R&D, Bharat Heavy Electricals Ltd is engaged in industrial process and product development in ceramics, such as microwave sintering, ceramic membranes, coatings, nanomaterials, and CSP for energy sector.



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A Chinese raw-material-group that concentrates on mining (bauxite), fusion manufacturing (brown-fused alumina and metallurgical alumina), and mineral processing (calcined bauxites, flint clays, kaolin and barites). U.S. sales office.

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Capital Refractories specializes in supplying refractory linings and associated products to metal melting, foundry, and cement industries around the world.

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Achtseweg Zuid 241-A Bldg TZ
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5651 GW The Netherlands
<http://www.celsian.nl>
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<http://www.centerlinetech-usa.com>
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Capabilities include precision lapping, polishing, laser machining, diamond sawing, edge/diamond machining, tumbling, and a filled via planarity process. Materials include AlN; 99.6%, 99.5%, and 96% alumina; BeO; fused silica; sapphire; quartz; and titanate.



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Fax: +1 603-595-9220
<https://vacuum-furnaces.com>
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Centorr Vacuum Industries is a manufacturer of custom vacuum and controlled atmosphere furnaces for the sintering, debinding, and heat treatment of advanced ceramics, such as SiC, Si₃N₄, AlN, BN, and B₄C; stainless steels; refractory metals; cermets; and hardmetals. Available in laboratory to production size at temperatures to 3,000°C and pressures to 1,500 psig, with graphite or refractory metal hot zones and optional Sweepgas binder removal systems to handle any binder or lubricant.

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Provides scientific industrial research and development in the area of glass, ceramics, and related materials that maximizes the economic, environmental, and societal benefit for the people of India.

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White City OR 97503
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info@cerakote.com

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Comprehensive microwave testing center staffed to assist customers in implementing and optimizing microwave processing in the ceramics, glass, and metal industries.

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PO Box 300
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A manufacturer of near-net shape technical ceramics by ceramic injection molding from prototype to high-volume production. Diamond grinding for high precision components. Ceramic fasteners in stock.

CERAMIC ARTS NETWORK +1 855-350-2529
550 Polaris Pkwy Ste No 510
Westerville OH 43082
<http://ceramicartsnetwork.org>
editor@ceramicartsdaily.org

Inspiration and instruction from ceramic artists and leading professionals in the field. The Ceramic Arts Network is an online community serving active potters and ceramic artists worldwide, as well as those who are interested in finding out more about this craft. The Ceramic Arts Network includes Ceramics Monthly, Pottery Making Illustrated, CLAYflicks, the International Ceramic Artists Network (ICAN), and Ceramic Recipes.

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Ceramitec is a leading trade fair for the ceramics industry—hub for sector-wide expertise and technology that brings the industry together.

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Produces a wide range of ceramics in 11 worldwide manufacturing locations, including a state-of-the-art laser facility in the U.S. Products include alumina and aluminum nitride substrates (pressed, stamped, lasered) and piezoceramics.

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An der Burg Sulz 17 Fax: +49 2205-9200144
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<http://www.ceramtec.com/subsidiary/ceramtec-etec>
info@etec-ceramics.de

CeramTec-ETEC is a CeramTec subsidiary that offers solutions made from ALOTEC advanced ceramics for wear and corrosion protection; ceramic armor for ballistic protection of personnel, vehicles, and assets; ALOSLIDE inrun track systems for ski jumping events; and PERLUCOR transparent ceramics.

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<http://www.ceranova.com>
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Supplies advanced structural ceramics for custom-engineered and designed machine parts, electrical/electronic components, fluid-handling equipment, machine wear parts, and welding-thermal equipment. Armor ceramics. CAD-CAM, CNC-equipped prototype lab.

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Limoges 87068 France

<http://www.cerinnov.com>
j.daems@cerinnov.com

Cerinnov specializes in the manufacturing of production and decoration machines for the ceramic and glass industries: shaping and decorating machines, laser marking, engineering, turn-key plants for tableware, tools, and after sales services.



CERION NANOMATERIALS +1 585-271-5630
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Rochester NY 14610

<http://www.cerionnano.com>
sales@cerionnano.com

Cerion is a leader in the science of designing, scaling and manufacturing metal, metal oxide and ceramic nanomaterials for commercial, defense and life science companies developing products or systems.

The cost of developing advanced expertise in nanomaterials is prohibitively expensive and time intensive, resulting in a

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CERIX grow platform GmbH is a start-up company from Robert Bosch GmbH. We produce high-tech ceramics for various markets and offer functional components for sensors, medical products, consumer goods, automotive components, and industrial products made of alumina and zirconia. CIM in combination with in-mold labelling and 3D printing enable us to manufacture complex functional components with the highest degree of precision.

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<http://www.cerinnov.com>
q.joly@cerinnov.com

Cerlase is an officially certified R&D center. Primary research lines are lasers for ceramics, glass and metal (sintering, melting, cutting), shaping processes for ceramics, decoration (laser sintering, total transfer, heat decal), and heat treatment.

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833 Booneslick Rd Fax: +1 636-585-2220
PO Box 159
High Hill MO 63350

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Christy Minerals LLC is a premier producer of alumina silicate clays and calcines. We service the refractory, ceramic art, investment casting, ceramic tile, and cement industries. We provide toll calcining, toll grinding, and screening services.

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<http://particle-size.us>
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<http://cmclaboratories.com>
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<http://www.du-co.com>
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<http://boroncarbide.cn>
rula@boroncarbide.cn

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<http://dynacut.com>
rplatt@dynacut.com

Established 1965. Manufactures precision cutoff machines for glass, ceramics, metallurgical, composite, and geological applications. Designs and manufactures custom production cutting and grinding machinery.

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The Edward Orton Jr Ceramic Foundation manufactures and markets pyrometric cones, TempCHEks, TempTab's, electronic temperature controllers, thermoanalytical instruments, and provides materials testing services.

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EIRICH offers innovative technologies for the preparation of raw materials and bodies in the ceramic industry. EIRICH develops and manufactures equipment (stand-alone machines and complete systems) for material processing, including grinding, mixing, granulating, kneading, and suspending. The equipment is used for preparing refractory mixes for shaped and unshaped products, tap hole clay, silicate ceramics slurries for table and sanitary ware, technical ceramics for dental and ballistic protection application, proppants, and much more. The unique design of the EIRICH Mixer allows for mixing, granulating, kneading, and dispersing in one single machine, which saves on costs, energy, time, and space. The tool speed can easily be adjusted and guarantees short batch times and homogenization. The mixer sizes for ceramics applications range from 1 liter to 7,000 liters and can be combined with vacuum drying technology. EIRICH also offers mills for grinding and size reduction.

Companies are welcome to visit EIRICH Machines' in-house, fully-equipped test lab in Gurnee, Illinois, to optimize batch times and homogenization, develop recipes, and perform R&D. Due to COVID-19, EIRICH Machines now also offers virtual tests via livestream video, where customers can interact with the Test Lab Manager during the trial and watch everything that goes on with their product.

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<http://www.elantechnology.com>
info@elantechnology.com

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Elcan sells advanced screening equipment that is unmatched in quality and performance. The company owns a large toll manufacturing facility in New York, where it sieves powders for companies and also does extensive testing for companies from all around the world.

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<http://electroabrasives.com>
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Manufacture black SiC, green SiC, and boron carbide. Also makes SiC grains and water-classified fine powders to ANSI and FEPA F sizes, submicron, as well as refractory and custom splits. Applications include ceramics, abrasives, refractories.

ELECTROSCIENCES LTD

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Surrey UK

<https://www.electrosiences.co.uk>
markys.cain@electrosiences.co.uk

Electrosiences Limited provides specialized scientific and technical consultancy to industry and academia in the technical discipline of multifunctional materials research and development. The company's technical director is professor Markys G Cain, who has over 30 years of experience in applied R&D in both academic and industrial environments.

Our business is modeled on the supply of scientific consultancy services. Expertise ranges from scientific strategy development for small business to bespoke scientific measurement solutions to your scientific and technical problems. Experience of over 30 years in the field of materials science and physics of the solid state lends itself to delivery of competent solutions to your scientific needs. Our specialist capabilities in the measurement of the properties of ferroelectric, piezoelectric, and multifunctional materials, films, crystals, and devices is offered with unique access to in situ synchrotron X-ray diffraction studies of these materials.

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400 Rouser Rd
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+1 304-552-9266

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<http://www.silicon.elkem.com>
siliconinfo@elkem.com

Elkem products that may be of interest in the advanced ceramics field are the Silgrain line of silicon powders. Silicon powder is often used as a raw material for manufacturing silicon nitride and silicon carbide ceramics.

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ESL ElectroScience specializes in providing solutions to enable customers to take technologies from concept through high volume production. A global supplier of customized thick film pastes and ceramic tapes.

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+49 36766-8680

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<http://fcti.de>
k.berroth@fct-keramik.de

Produces customized components made of silicon nitride-based ceramics, sintered silicon carbide, C/C-SiC composites, and zirconia. Major applications are in light-metal casting, wear protection, chemical and mechanical process engineering, electronics, precision optics, testing equipment, metal forming, and brake pads.

FCT SYSTEME GMBH

Gewerbepark 16 Frankenblick
Thuringia D-96528 Germany

+49 36766-8240

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We are a Japanese company with manufacturing location in China. Our ceramics and quartz division is the largest manufacturer of semiconductor components in China since 2007.

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IPS Ceramics is a manufacturer of specialist high-temperature ceramics. Its products are largely based on cordierite-mullite systems that result in aluminosilicate refractory products that are strong and stable at high temperatures.

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The company mainly focuses on high-purity and ultra-fine transition metal carbides, nitrides, carbonitrides, borides and other high-end non-oxide ceramic powders, cermet tools, high-performance ceramic tools, cemented carbide cutting tools, sophisticated wear-resistant ceramic components and other advanced ceramic parts, etc.

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