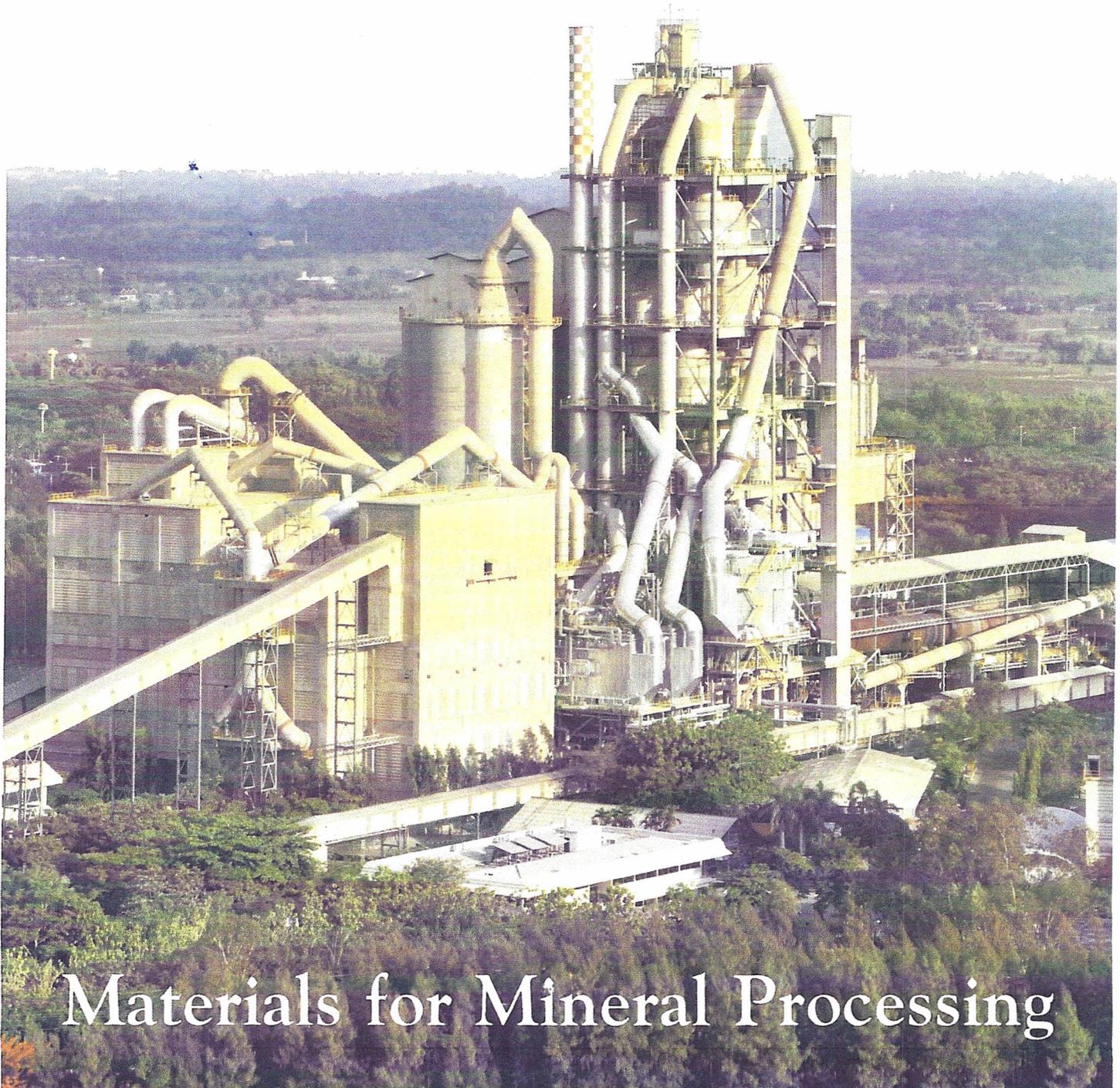


Refractories Since 1914



Materials for Mineral Processing

Since 1914, Plibrico has been an innovative leader in the development and manufacture of monolithic refractory products. Quality, Consistency and virtually zero lead time have been keystones to the longevity of our success.

Our ability to react rapidly to our customers' refractory requirements is paramount to our continued success.

In the mineral processing industries, the increased use of alternative fuels coupled with rigorous production demands has changed refractory materials' performance. Traditional refractory materials that performed satisfactorily are now realizing a shorter than expected service life.

Plibrico is pleased to announce our new, "CL" line of products designed specifically for the minerals processing industries. These products have been developed, engineered and manufactured with the ability to withstand increased alkali loads and/or abrasive environments. We have also developed an AZ S-based material for severe alkali and abrasive environments.

Product Overview:

Gun Mixes

Our new "CL" gun mix products use material enhancements of silicon carbide (SiC) and zircon (ZrO₂) to provide additional resistance to alkalis and abrasion.

Product	Alumina Source	Enhancement
Pligun CL 5-F KK	Super Duty	5% SiC
Pligun CL 5Z-F KK	Super Duty	4% ZrO ₂
Pligun CL 5-M KK	Mullite	5% SiC

Shotcrete/Castables

Our new "CL" shotcrete products use material enhancements of *silicon carbide* (SiC) and zircon (ZrO₂) to provide additional resistance to alkalis and abrasion. Additionally, these materials can also be cast in place providing the flexibility to change installation method as timing of the job dictates.

Product	Alumina Source	Enhancement
Pli-Shot HyMOR CL 5Z-F KK	Super Duty	4% ZrO ₂
Pli-Shot HyMOR CL 5-F KK	Super Duty	5% SiC
Pli-Shot HyMOR CL 10-M KK	Mullite	10% SiC
Pli-Shot HyMOR CL 20-M KK	Mullite	20% SiC
Pli-Shot HyMOR CL 30-M KK	Mullite	30% SiC
Pli-Shot HyMOR CL 50-M KK	Mullite	50% SiC
Pli-Shot HyMOR CL AZS KK		AZS

The new CL product line proudly complements the full line of Plibrico materials for all industrial applications

Product Overview

<p style="text-align: center;">Plastics</p> 	<p style="text-align: center;">Product Type</p> <p style="text-align: center;">Air Bond Phos Bond Silicon Carbide</p>	<p style="text-align: center;">Al₂O₃ Available Range</p> <p style="text-align: center;">43 - 80% 68 - 90% 80%</p>
<p style="text-align: center;">Gun Mixes</p> 	<p style="text-align: center;">Product Type</p> <p style="text-align: center;">Conventional Phos Bond HyRezist Products Low Cement Silicon Carbide</p> <p style="text-align: center;">Lightweight</p>	<p style="text-align: center;">Al₂O₃ Available Range</p> <p style="text-align: center;">43 - 70% 60 - 82% 48 - 55% 70 - 80% 80 %</p> <p style="text-align: center;">40 - 90 PCF Available</p>
<p style="text-align: center;">Shotcrete</p> 	<p style="text-align: center;">Product Type</p> <p style="text-align: center;">Low Cement HyRezist Product Silicon Carbide</p>	<p style="text-align: center;">Al₂O₃ Available Range</p> <p style="text-align: center;">49 - 95% 60% 80%</p>
<p style="text-align: center;">Castables</p> 	<p style="text-align: center;">Product Type</p> <p style="text-align: center;">Conventional Low Cement Ultra Low Cement Cement Free Self Flow Phos Bond (Fast Set)</p> <p style="text-align: center;">Lightweights</p>	<p style="text-align: center;">Al₂O₃ Available Range</p> <p style="text-align: center;">34 - 96% 48 - 96% 65 - 80% 49 - 82% 47 - 82% 47 - 82%</p> <p style="text-align: center;">38 - 94 PCF Available</p>

*Silicon carbide containing castables also available



***Total Customer Value Is Plibrico's Primary Objective**
in refractory research . . . engineering design . . . advanced
construction . . . superior product quality . . .
and turnkey solutions.*



Your Partner in Success

Plibrico provides our customers with complete refractory solutions. You benefit from both engineering and construction services and the technical expertise of refractory product manufacturing.



Refractory Products

Plibrico offers a full line of refractory products. All Plibrico products undergo stringent quality testing including extensive qualification of raw materials to ensure superior performance.



Technical/Engineering Support

Selecting the best refractory material for your application is critical for durability and efficiency. Targeted recommendations result in reduced downtime and improved operating efficiency. Plibrico also maintains an "in-house" dedicated engineering group that can address everything from a small refractory repair to complete turnkey design of complex thermal-processing applications.



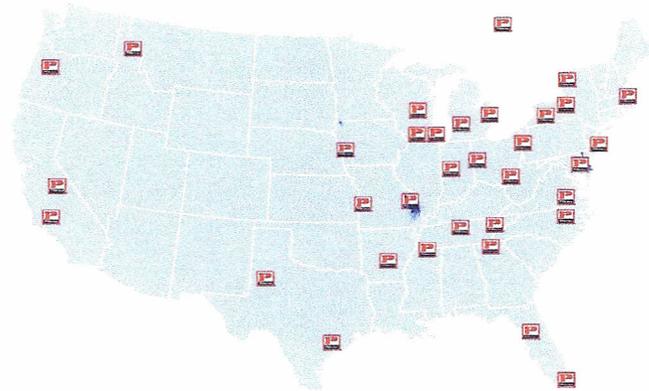
Plibrico Research & Development

Plibrico's R&D can develop innovative solutions to the most challenging applications.



Installation/Construction

Plibrico offers complete refractory installation services. You achieve peace of mind in knowing that we complete your installation on time and on budget. In addition to traditional installation methods, Plibrico can employ advanced materials and methods that reduce downtime significantly. Pneumatic plastic gunning (HyRATE), shotcreting (Pli-Shot) and rapid setting products (Exo-Set Uno) are just a few of your choices. Plibrico has the equipment, manpower, experience and expertise to get your job done. Installation crews are also available 24/7 for rapid assistance.



Nationwide Sales/Service

Because our success depends on your success, we maintain a nationwide network of offices and dedicated installers to serve you locally. Plibrico refractory products and installation services are available near you. Contact us today!

(312) 337-9000

www.PlibricoCompany.com