



MATERIALS LIZ



a Division of



LIZMONTAGENS

thermal
products

Superwool®

AES Fibers – Alkaline Earth Silicates (BioSoluble Fibers)

Exonerated from carcinogenic classification in EU according to the terms of NOTA Q from the Directive 67/548/EEC.

Low thermal conductivity
Low bio-persistence
Low linear shrinkage up to their use limit
Low shot content

High tensile strength
High production consistency
High acoustic performance
High energy saving



Superwool® Plus

Maximum Continuous Temperature 1100° C

Classification Temperature 1200° C



Superwool® HT

Maximum Continuous Temperature 1200° C

Classification Temperature 1300° C

Refractory Ceramic Fibers – RCF

Morgan ThermalCeramics alumino-silicate fibres display high temperature stability for continuous use at temperatures up to 1600°C.

Low thermal conductivity
Low heat storage capacity

High thermal shock resistance
High corrosion resistance
Inorganic - smoke free



**Kaowool® Cerablanket® Cerachem® Cerafiber®
Cerachrome® Cerafelt® Pyro Bloc® Pyro Log® Z Bloc®
ThermoBloc® Ceraboard® MAFTEC®**

Fire Protection

Appropriated for oil, gas, petrochemical and power industries, providing up to 240 minutes hydrocarbons fire resistance.



Protection for cables and conducts

FireMaster can be supplied fully encapsulated in aluminum foil offering fire, thermal and acoustical protection in a single product.

All products are fire tested and approved according to UL 1709, valid worldwide for Cellulosic, hydrocarbon and jet fire protection.



Protection for steel and concrete sections

Low density monolithic spray applied solutions.

Calcium silicate

Promat

High density

MONOLUX® -500, -800: Medium dense Calcium Silicate Insulating Boards from 500 °C to 1000 °C.

MONALITE® M1 and M1-A: Calcium Silicate Insulating Boards for Non-Ferrous Metallurgy 850 °C to 1000 °C.



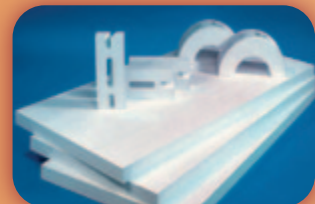
Lightweight solutions

PROMASIL®-1000, -1000 P, -1100, Lightweight Calcium Silicate Insulating Boards 1000° C to 1100° C.

Silcaliz

Lightweight Calcium Silicate Insulating Solutions 1000° C to 1100° C.

Pre-forms made according to costumers need and design.



Microporous

PROMALIGHT®
MICROTHERM®

Nanoporous and microporous Insulating Boards 500° C to 1000° C.



Textiles

E-Glassfibers / Silica Fibers

LizTherm 500

E-Glass Cloth

Thickness - 0,2 and 3 mm

Width - 20 to 1500 mm

Aluminum foil with 14 microns - 1 or 2 sides

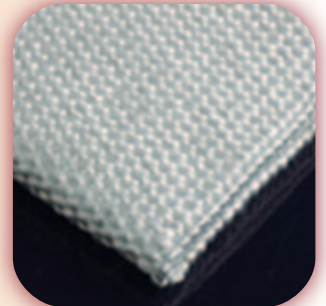
Continuous Use Temperature - 550° C

Melting point - 840° C

Resistant to corrosive environments

Exceptions:

Hydrofluoric and phosphoric acids and concentrated alkalies



LizTherm 1200S



SilicaCloth (>96%)

Thickness: 0,65; 1,15 and 1,3 mm

Width 914 mm

Continuous Use Temperature: 1100° C

Softening Temperature: 1700° C

Resistant to corrosive environments

Applications:

Fire-resistant curtains

Protective Clothing

Controlled cooling of Castings

Welding curtains

Insulation linings

Wrapping of exhausts

Flange Jointing with openings

Radiant heat Shields

Heat insulation

Ferrous and non-ferrous melt fine filters for metallurgies

Special Coatings for textiles

(some examples based on E-Glass fiberglass)

Silicone rubber coating
/ PTFE coating (250° C)



One face Aluminium
foil (550° C)



Vermiculite coating
(650° C)



Graphite coating
(750° C)



Ceramic textiles

LizCeram

RCF fibers up to 1100°C

LizBio

Bio-soluble fibers up to 1100°C



LizBio SW Textiles products are manufactured, using bio-soluble fibers, which are exonerated from carcinogenic classification in EU according to the terms of NOTA Q from the Directive 67/548/EEC.

LizBio SW textiles are also available in ropes, braids, tubes, tapes, etc.

Firesleeves

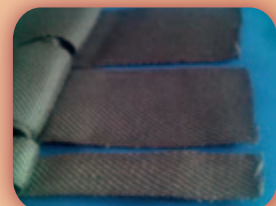
E-glass fabric coated with high temperature silicone rubber.

Aerostyle Pyrojacket®
Pyrojacket® VCO
EAF Cable Cover
Pyrotape®
Pyrosil™ Tape



Metalic Fibers

LizTherm SUS 316L (Stainless Steel Fibers in 316L)
Combines the flexibility and softness of fabric with high-resistant properties of the stainless steel.



Vermiculite

Boards
Pre-forms



Mica

Boards and sheets
Ceramic paper with mica foil



Graphite

Boards with stainless steel
AISI 316L core



Insulating Agregates

Vermiculite
Perlite



Anchor

Manufacture of pre-forms
according to costumers need
and design.



Manufacture of pre-forms

Rock wool

Manufacture of pre-forms according to customers needs and design.
Biosoluble and refractory ceramic fibers cutting and modules production.



Cordierite/Cordierite Mullite/Acid-resistant Cordierite

LIZCORITE® range of qualities
Special shapes for kiln car systems, kiln walls, draught blocks, etc.
Batts—plain, ribbed and perforated
Kiln furniture – caps, cylindrical tubes, etc,



Insulation Jackets and Expansion Joints

Custom made and easy to install insulation jackets and expansion joints,
made with high temperature fabrics and insulation materials.

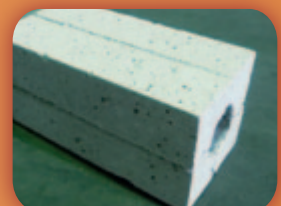
Applications:

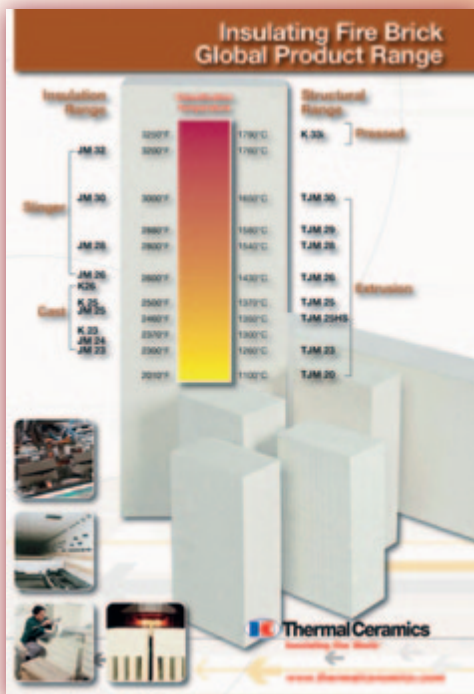
Expansion joints
Valve
Exhaust
Turbine insulation
Fire protection covers
Welding blankets
Protection curtains



Concrete forms

Custom made concrete pieces.
Applications: Burner blocks, complex concrete shapes.





Insulation Firebricks (IFB)

Specifically designed for heat containment challenges for industries such as ceramic ware, hobby kiln manufacturers and primary aluminum producers.



Insulating Fire Bricks

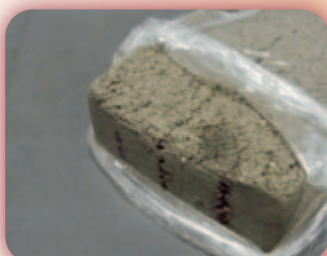
- Excellent strength at ambient and elevated temperatures
- High compressive strength
- Very low levels of iron and other impurities
- Lower heat storage than denser refractories
- Available in custom designed shapes upon request

Backup Insulating Firebricks



- Backup insulation brick, maximum service temperature of 900°C.
- Perliz 45, highly insulating, very low density bricks
- Perliz 55, with higher mechanical strength

- Availability of special dimensions and large slabs
- Excellent insulation
- Structural and dimensional stability in temperature
- Safety of use (Fibreless and without Cristobalite or Tridimite)



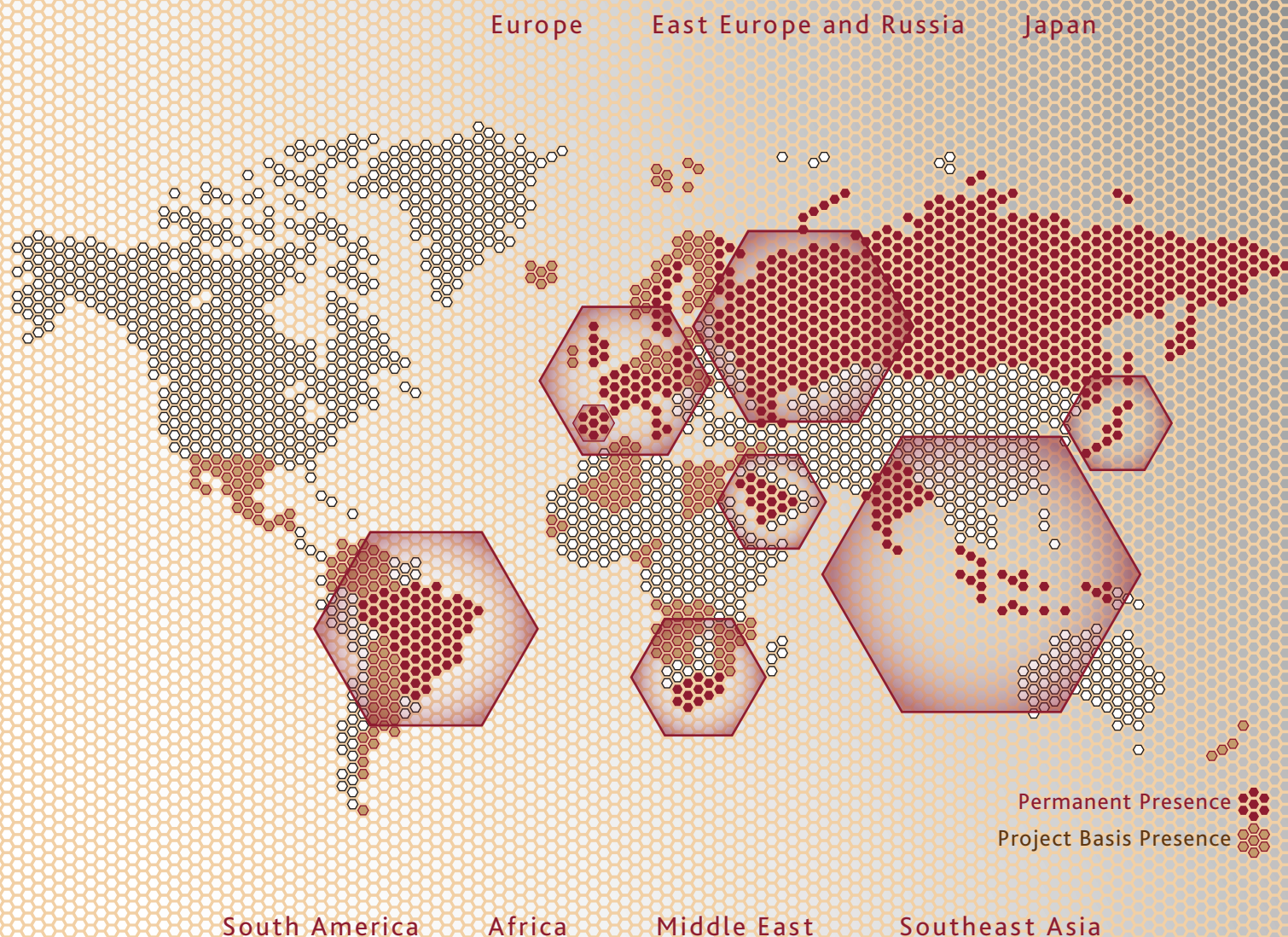
Fireclay bricks

- A full range of high quality dry-pressed refractory bricks, pre-fabricated shapes and acid resistant materials for industrial applications.

Monolithics

- Lizmontagens Group can provide a wide range of solutions for heat-intensive tasks. Available in different formulations, densities, and installation methods - depending on need - our monolithics can be used as primary or secondary insulation, for repair, or for special applications.

keep growing,
after more than 30 years of
worldwide activity



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