



*Division FRIALIT®-DEGUSSIT®
Engineered Technical Ceramics*

FRIATEC N.A. LLC
Engineered Products
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Technical Data Sheet

Large Components made of FRIALIT®-DEGUSSIT®

Product Description

FRIATEC oxide ceramic component parts have been utilized for several decades in industry in applications with extreme operating conditions including corrosion, high wear and high temperatures. Wear and corrosion, often defining factors in equipment and machine life, can be significantly reduced using FRIALIT®-DEGUSSIT® ceramic parts. Over the years FRIATEC has seen a growing demand for larger components. Products such as pistons, plungers, bearings and wear strips are a few of the component parts we have supplied in lengths up to 1200 mm (47.2 inches).

Large custom made component parts are available in several FRIALIT®-DEGUSSIT® materials. These materials include:

- **FRIALIT® F99.7 (Al₂O₃ 99.7%)**
- **FRIALIT® FZM (MgO stab. ZrO₂, MgPSZ)**
- **FRIALIT® FZT (Al₂O₃ + ZrO₂, ZTA)**

Product Benefits

When compared to conventional materials, FRIALIT®-DEGUSSIT® ceramics provide the following outstanding characteristics:

- Superior strength
- Outstanding wear resistance
- Low thermal expansion
- Excellent corrosion resistance against aggressive media
- High temperature resistance up to approximately 1800°C
- Resistance to molten materials
- Very high electrical insulating properties
- FDA-approval regarding food contact
- Excellent surface finish and low friction
- Large wall thickness geometries are possible
- Can be used in applications with abrading and sliding stresses without lubricant

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TDS-LC-01

Product Samples

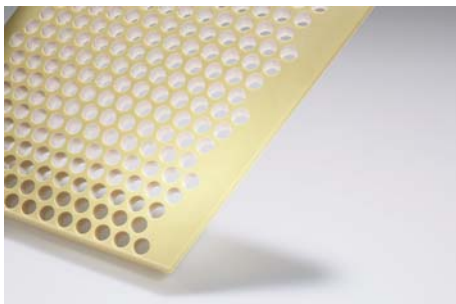
Dielectrics for Fuel Cells



**Metering plungers for Food
& Pharmaceutical industries**



**Exhaust cover for Paper-Making
Plant**



**Insulators for Printing-House
Machinery**



Cyclone Separator
(For abrasive applications. Separates solids from liquids.)

