

FILL 140 – CHEM

1. DESCRIPTION

High-density ceramic fibre mastic for high temperatures, useful for filling or gluing on refractory products in general, such as:

- refractory bricks (dense and/or insulating);
- cavities created between the carpentry and the insulation of thermal plants (industrial furnaces, boilers, etc.).

Specific for repairing industrial thermal plants (furnaces, boilers, etc.) with conduction at maximum temperatures of 1.300 ° C.

2. TECHNICAL DATA

Creamy light gray compound.

Operating temperature 1.300 ° C. Simple to spread.

Excellent filler for repairing vertical surfaces of ceramic ladles, and surfaces of various shapes of metal transfer cups. Useful for gluing ceramic parts with cracks or items in fused silica.

3. COMPOSITION

Typical chemical composition: ceramic flock for T 1.430 °C, marking Thermal Ceramics (Cas.142 844-00 6) colloidal silica (Cas. N. EEC n. non-dangerous) disinfectant, water.

Typical composition by weight of the refractory ceramic fibers (RCF/ASW) contained in an amount of about 30% of the product, is the following:

SiO<sub>2</sub>: 45-60%, Al<sub>2</sub>O<sub>3</sub>: 28-55%, ZrO<sub>2</sub> <18%

None of the components is radioactive under the terms of the European Directive Euratom 96/29.

4. APPLIED CONTROLS

Density:	0.70 g / cm <sup>3</sup>
Dry density:	0,20 g / cm <sup>3</sup>
Melting point:	1.650 °C
Thermal conductivity:	n.a.
Colour:	light grey
Operating temperature:	1.300 °C Max

Chemical analysis carried out by an accredited laboratory:

Wet compound analysis (after production, taken from intact packaging)

Al <sub>2</sub> O <sub>3</sub> (%)	SiO <sub>2</sub> (%)	CaO (%)	Fe <sub>2</sub> O <sub>3</sub> (%)	MgO (%)	Na <sub>2</sub> O (%)	K <sub>2</sub> O (%)	TiO <sub>2</sub> (%)	ZrO <sub>2</sub> (%)
10,70	15,00	0,03	< 0,01	< 0,01	0,07	< 0,01	< 0,01	4,10

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Analysis of the compound after drying at 300 °C for 24 h.

Al <sub>2</sub> O <sub>3</sub> (%)	SiO <sub>2</sub> (%)	CaO (%)	Fe <sub>2</sub> O <sub>3</sub> (%)	MgO (%)	Na <sub>2</sub> O (%)	K <sub>2</sub> O (%)	TiO <sub>2</sub> (%)	ZrO <sub>2</sub> (%)
35,80	50,80	0,12	< 0,01	< 0,01	0,27	< 0,01	< 0,01	11,50

### 5. *METHOD OF USE AND ADVANTAGES*

It is an air setting refractory mastic.

If kept sealed in the original packaging with temperatures between 5 °C and 35 °C, it has a life of 6 months.

It is used in the industry user of ceramic insulating products, dense and/or fused silica, to repair mechanical breaks due to clumsy operations or to fill surfaces worn out by use.

The are many ADVANTAGES :

It is easy to spread using a roller, brush or spatula, thanks to its creamy composition it has an excellent heat resistance (up to 1.300 °C).

Thanks to its components it does not alter the qualities of the bonded compounds, it does not release fumes during the first firing and guarantees an excellent grip between the glued elements.

### 6. *PACKAGING*

Tin of 20 Kg

Tin of 5 Kg

Packs of 1.50 Kg

Cartridges of 300 gr

### 7. *STORAGE*

Requires storage in a dry and well-ventilated area.

Do not store at temperatures below 5 °C or above 35 °C.

### 8. *WARNINGS*

The product contains ceramic fibers.

Classification according to the Regulation (EC) N°1272/2008

According to the regulation (CLP) 1272/2008 EEC concerning Classification, labeling and packaging, the RCFs have been classified as carcinogenic category 1B.

Classification according to the directive 67/548/EEC

The RCF / ASW have been classified as a carcinogenic category 2 ("Substances which should be regarded as if they are carcinogenic to man").

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Additional information:

The International Agency for Research on Cancer (IARC) reaffirmed that the 2B classification ("Probably carcinogenic to humans") remains the most appropriate for RCFs.

In accordance with the 31st adaptation to the Technical Progress of Directive 67/548/EEC as published on 15 January 2009, the "irritating" classification has been removed for all types of artificial glass fibers (MMVFs).

For more detailed safety information, please refer to the Product Safety Data Sheet.

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