

PRODUCT DESCRIPTION

OP/G70F/2020/12 dated 1st December 2020

HIGH ALUMINA CEMENT

GENERAL CHARACTERISTICS

GÓRKAL 70F is hydraulic binder with high content of Al_2O_3 . The material was created to offer the refractory Customers high refractoriness parameter and followed by **shorter than regular GÓRKAL 70** setting time. It is important to mention that the material is **chemically pure** cement.

SPECIAL PROPERTIES

| GÓRKAL 70F | is | characterise | d | by | some | special |
|------------------|------|-----------------------|---|-------|--------|---------|
| features: | | | | | | |
| Specific surface | ce a | cc. to Blaine | 4 | 000 - | 4500 c | m²/g |
| Refractorines | S | | ≥ | 158 s | sР | |
| Density | | 3,0 g/cm ³ | | | | |
| Bulk density | | 1,1 g/cm ³ | | | | |

APPLICATION

Thanks to high purity and very good refractoriness the **GÓRKAL 70F** can be used in variety refractory products especially in gunning, shotcreeting applications.

CHEMICAL COMPOSITION

GÓRKAL 70F principal components:

| component | Typical values [%} | | |
|--------------------------------------|--------------------|--|--|
| Al ₂ O ₃ | 69 - 71 | | |
| CaO | 28 - 30 | | |
| SiO ₂ | <0,5 | | |
| Fe ₂ O ₃ | <0,3 | | |
| Na ₂ O + K ₂ O | <0,5 | | |

The characteristics have been determined by classical analysis

MINERALOGICAL COMPOSITION

HYDRAULIC PROPERTIES

GÓRKAL 70F hydraulic properties:

| | Typical values [minutes] | |
|----------------------|--------------------------|--|
| Initial setting time | >75 | |
| Final setting time | <160 | |

The mixture composition is: 1350 g French sand 450 g cement 225 g water

MECHANICAL PROPERTIES

GÓRKAL 70F is characterised by following mechanical strengths:

| Cold Flexural Strength after 24h | >5 MPa |
|----------------------------------|---------|
| Cold Crushing Strength after 24h | >30 MPa |

The mixture composition is: 1350 g French sand 450 g cement 225 g water

SHELF LIFE

If stored properly, in dry conditions, the **GÓRKAL 70F** shelf-life can be 6 months. Please, contact GÓRKA CEMENT R&D, Technical Sales Support Department for more precise details, if required.

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