



PRODUCT DESCRIPTION

HIGH ALUMINA CEMENT

GÓRKAL 70A

GENERAL CHARACTERISTICS

GÓRKAL 70A is the hydraulic binder with high content of Al_2O_3 . The material was created to offer the optimal hydraulic parameters to be applied in demanding formulas. It is important to mention that the material is **chemically pure** cement.

APPLICATION

Thanks to stable phase composition, high purity and modified hydraulic behaviour, high refractoriness the **GÓRKAL 70A** can be used in a variety of both construction and refractory mixes.

CHEMICAL COMPOSITION

GÓRKAL 70A principal components:

component	Typical values [%]
Al_2O_3	69,0 – 71,0
CaO	28 - 30
SiO_2	<0,5
Fe_2O_3	<0,3
$Na_2O + K_2O$	<0,5

The characteristics have been determined by classical analysis

MINERALOGICAL COMPOSITION

Principal phases: CA, CA_2
 Traces of secondary phases: αA , $C_{12}A_7$
 This information is just given as rough one.

SPECIAL PROPERTIES

GÓRKAL 70A is characterised by some special features:

Specific surface acc. to Blaine	3300 - 4000 cm^2/g
Common fire refractoriness	≥ 158 sP
Density	3,0 g/cm^3
Bulk density	1,1 g/cm^3

HYDRAULIC PROPERTIES

GÓRKAL 70A hydraulic properties:

	Typical values [minutes]
Initial setting time	>300
Final setting time	<600

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

MECHANICAL PROPERTIES

GÓRKAL 70A 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 70A** shelf-life can be 12 months. Please contact Górká Cement Development, Quality and Controls Department for details of storage.