



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:  $\alpha A$ ,  $C_{12}A_7$   
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	$\geq 158$ 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 Górka Cement Development, Quality and Controls Department for details of storage.