



## PRELIMINARY PRODUCT DESCRIPTION

### HIGH ALUMINA CEMENT

# GÓRKAL 80



## GENERAL CHARACTERISTICS

**GÓRKAL 80** is hydraulic binder with high content of  $Al_2O_3$ . The material was created to offer the refractory Customers high refractoriness parameter and satisfying mechanical properties. The product is in lanching process so, any feedback is kindly welcome. It is important to mentioned that the material is **chemically pure** cement.

## APPLICATION

Thanks to high purity and very good refractoriness the **GÓRKAL 80** can be used in variety of refractory applications where high temperature resistance is required. **GÓRKAL 80** also performs well in any reduction atmospheres.

## CHEMICAL COMPOSITION

**GÓRKAL 80** principal components:

component	Typical values [%]
$Al_2O_3$	79 – 82
CaO	<20
$SiO_2$	<0,4
$Fe_2O_3$	<0,2
$Na_2O + K_2O$	<0,7

*The characteristics have been determined by classical analysis*

## MINERALOGICAL COMPOSITION

Principal phases: CA,  $CA_2$ , Aa  
Secondary phase:  $C_{12}A_7$   
This information is just given as rough one.

## SPECIAL PROPERTIES

**GÓRKAL 80** is characterised by some special features:

Specific surface acc. to Blaine >8000  $cm^2/g$   
Refractoriness >173 sP

## HYDRAULIC PROPERTIES

**GÓRKAL 80** hydraulic properties:

	Typical values [minutes]
Initial setting time	>120
Final setting time	<360

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

## MECHANICAL PROPERTIES

**GÓRKAL 80** is characterised by following mechanical strengths:

Cold Crushing Strength after 6h >6 MPa  
Cold Crushing Strength after 24h >20 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 80** shelf-life can be 6 months. Please contact Gorka Cement Quality Controls Department for details of storage.