

GORKAL 50+

MECHANICAL STRENGTH

GÓRKAL 50+ is a high alumina cement with a stable phase composition, resulting in excellent mechanical properties.

It can be used in mortars and concretes in construction chemicals, as well as an insulating component of refractory compounds or other jointless materials.

With a low Fe_2O_3 content and a noticeable increase in mechanical strength, this product also has a short setting time.



CEMENT FEATURES

Chemical Composition

Component	Values %
Al_2O_3	51 - 55%
CaO	<38%
Fe_2O_3	<3%
SiO_2	<5%

Special Properties

Properties	Measure
Blaine fineness	3000 - 3500 cm^2/g
Refractoriness	≥ 146 sP
Density	3,0g/ cm^3
Bulk Density	1g/ cm^3

Hydraulic Properties

Properties	Values (minutes)
Start of setting	>220
End of setting	<600

Mechanical Properties

Properties	Pressure (MPa)
Compressive strength after 6h	>18 MPa
Compressive strength after 24h	>45 MPa

Mineralogical Composition

Phase	Composition
Basic Phase	Calcium monoaluminate
Accompanying Phases	Brownmillerite C4AF Dodecacalcium hepta-aluminate C12A7 Gehlenite C2AS