



CARL-Calcium Aluminate Cement 70

Chemical Analysis (XRF):

	min.	typical	max.
Al ₂ O ₃	68,0	70,0	72,0
SiO ₂		0,1	0,4
Fe ₂ O ₃		0,1	0,2
Na ₂ O		0,1	0,3
MgO		0,3	0,4
CaO	27,0	29,0	31,0

Physikal properties:

LOI (RT - 950°C) %		0,4	
Surface Area (m ² /g)		4,0	
D ₅₀ μm		6,0	

Mineralogical Composition (X-Ray Diffraction)

CA		81,7	
CA2		9,5	
A		8,8	

Sand Mortar Properties - CEN-Norm EN 196-1 (25% cement)

	min.	typisch	max.
Water / Cement ratio		0,5	
Flow after mixing (%)		20	
Flow after 30 min (%)		15	
Initial setting time (Min)		60	
Final setting time (Min.)		180	
Workability (Min)		40	
Compressive Strength after 110°C x 24h, MPa	> 30	40	