

## Product Data Sheet

### Royal El Minya Cement

Royal El Minya White Cement has the CE-mark and is marked as CEM I 52,5 R and certified by Kiwa Certification with the certificate no. 0770-CPR-2362-03-16.

Items		Actual value	Confirmed Value	Standard EN 197-1
<b>Chemical properties</b>				
SO <sub>3</sub>	%	2.0 – 3.0		≤ 3,5
MgO	%	0,5		
Alkalies asNa <sub>2</sub> O	%		≤ 0,3	≤ 0,4
Cl <sup>-</sup>	%		≤ 0,04	≤ 0,10
Loss on ignition	%	2.5		≤ 5,0
Insoluble residue	%	0,1		≤ 5,0
Water soluble Cr <sup>6+</sup>	ppm	≤ 2.0		
<b>Bogue composition - Clinker</b>				
C <sub>3</sub> S	%	67		
C <sub>2</sub> S	%	15.0		
C <sub>3</sub> A	%	10.0		
C <sub>4</sub> AF	%	0.5		
<b>Physical properties</b>				
1 day strength	MPa	19 - 25		
2 days strength	MPa	33 - 43		≥ 30
7 days strength	MPa	55 - 68		
28 days strength	MPa	68 - 75		≥ 52,5
Initial setting time	min	100 - 160		≥ 45
Standard Consistency		31		
Soundness	mm	1.0		≤ 10
Fineness	m <sup>2</sup> /kg	410		
Reflection (DIN 5033)	%	85 - 88		
Hunter L	%	94		
Absolute density	kg/m <sup>3</sup>	3000 -		
Bulk density	kg/m <sup>3</sup>	1100		