

Technical Data Sheet

Product Type: **White Portland Cement** (CEM I 52.5 R)



1. Manufacturer

Royal El Minya Cement Co.

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2. Product Description

White Portland Cement is a basic building material that is used in concrete, flooring, infrastructure projects and a wide variety of commercial and architectural applications.

3. Composition & Materials

Royal Cement's products are manufactured with premium Egyptian white limestone, kaolin and white sand. Care is used in the selection of raw materials to insure negligible amounts of iron and manganese oxides to achieve the highest level of color consistency and whiteness.

All manufacturing is quality controlled to ensure our product's optimal performance and uniformity.

The composition of CEM I 52.5 R is as follows:

Ingredient Name	% Content
Portland Cement Clinker	96 %
Limestone	1 - 2 %
Minor constituents	0 - 4 %

4. Whiteness

Whiteness is measured according to Y value using the CIE system.

Y (Whiteness) ≥ 84

5. Chemical Features

Item	Royal White Cement Typical Value	Standard Limit
Insoluble Residue (%)	1.0 ± 0.5	< 5.0
Ignition Loss (%)	3.0	< 5.0
SO ₃ (%)	3.5 ± 0.2	< 4.0
Chlorine (%)	0.050 ± 0.02	< 0.1

6. Physical Features

Item	Royal White Cement Typical Value	Standard Limit
Initial Setting (min.)	90 ± 20	≥ 45
Blaine (Cm ² /g)	4,500 ± 500	-
Soundness (expansion mm)	1.5 ± 0.5	≤ 10.0
Compressive Strength (N/mm ²)		
2 Days	≥ 35.0	≥ 30.0
28 Days	≥ 65.0	≥ 52.5

7. Packaging

Bulk in silo trucks or super sacks.

Packaging available in 50, 40, 25 kg paper craft or polypropylene bags.

8. Technical Assistance

Technical assistance, including more detailed information, samples and pricing is available by contacting your Royal Cement representative or by e-mailing info@royalcement.com.