



الشركة العربية اليمنية للإسمنت المحدودة
Arabian Yemen Cement Company Ltd

Quality Control Department

HADHRAMOUT CEMENT

C/QC/Spec/EN/CEMII/BP/425/01

Date of Issue: 16-Mar-15

**In accordance with British Standard Specification
EN 197-1:2011 CEM II/B-P 42.5N**

| Chemical Tests | | Unit | Std. Specifications | | Typical Analysis |
|----------------------------|--------------------------------|--------------------|---------------------|------|------------------|
| | | | Min. | Max. | |
| Silicon dioxide | SiO ₂ | % | - | - | <23.0 |
| Aluminum Oxide | Al ₂ O ₃ | % | - | - | 7.75 |
| Ferric Oxide | Fe ₂ O ₃ | % | - | - | 6.20 |
| Calcium Oxide | CaO | % | - | - | >49.70 |
| Magnesium Oxide | MgO | % | - | 5.00 | <3.0 |
| Potassium Oxide | K ₂ O | % | - | - | <0.42 |
| Sodium Oxide | Na ₂ O | % | - | - | <1.20 |
| Sulphuric anhydride | SO ₃ | % | - | 3.50 | 2.20 |
| Chloride | Cl | % | - | 0.10 | <0.05 |
| Loss on Ignition | L.O.I. | % | - | - | <2.15 |
| Insoluble Residue | I.R.(KOH) | % | - | - | < 4.0 |
| Tricalcium Aluminate | C3A | % | - | - | 10.06 |
| Tetracalciumaluminoferrite | C4AF | % | - | - | 18.87 |
| <hr/> | | | | | |
| Physical Tests | | Unit | Std. Specifications | | |
| | | | Min. | Max. | |
| Fineness, Specific surface | Blaine | M ² /kg | - | - | ≥380 |
| Setting Time | Initial | Minutes | 60 | 60 | ≤ 150 |
| | Final | Minutes | - | - | ≤ 210 |
| Soundness (Le Chatelier) | | mm | - | 10 | ≤ 1.0 |
| Compressive Strength | 2 Days | MPa | 10 | - | 18±1 |
| | 7 Days | MPa | - | - | 30±2 |
| | 28 Days | MPa | 42.5 | 62.5 | 50±2 |

We certify that the above described cement, at the time of despatch, meets the chemical and physical requirements of the EN 197-1 - CEM II/B-P 42.5N.

(Muhammad Hanif Javed)
Quality Control Manager