

**Karoon Cement co****Qualiti Control Test Report****Product Name: Portland Cement Type 2 (42.5)****Date: 2025-02-11****OPC**

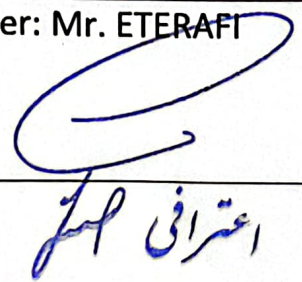
| Test Parameters         |        |   | Method       | Result | Product Range |
|-------------------------|--------|---|--------------|--------|---------------|
| Loss on Ignition        | LOI    | % | ISIRI 1692   | 1.7    | $2 \pm 0.5$   |
| Silicon Dioxide         | Sio2   | % | " "          | 21.1   | *             |
| Aluminium Oxide         | AL2O3  | % | " "          | 4.7    | *             |
| Ferric Oxide            | Fe2O3  | % | " "          | 3.8    | *             |
| Calcium Oxide           | CaO    | % | " "          | 62.8   | *             |
| Magnesium Oxide         | MgO    | % | " "          | 2.7    | Max 3.5       |
| Sulfur Trioxide         | So3    | % | " "          | 2.2    | $2.2 \pm 0.5$ |
| Equivalent alkali       | A.E    |   |              | 0.8    | *             |
| Insoluble Residue       | IR     | % | ISIRI 1692   | 0.5    | *             |
| Free Cao                | F. CaO | % | ISO774       | 1.1    | -             |
| Tricalcium Silicate     | C3S    | % | Bouge Method | 52     | -             |
| Dicalcium Silicate      | C2S    | % | " "          | 21.5   | -             |
| Tricalcium Aluminate    | C3A    | % | " "          | 6      | $7.5 \pm 1$   |
| Calcium Alumino Ferrite | C4AF   | % | " "          | 11.6   | -             |

**PHYSICAL TESTS**

|                           |                     |      |           |      |                |
|---------------------------|---------------------|------|-----------|------|----------------|
| Blaine                    | Cm <sup>2</sup> /gr |      | ISIRI 390 | 3100 | $3200 \pm 100$ |
| Setting Time - Vicat Test |                     |      | ISIRI 392 | -    | -              |
| Initinal                  | Min                 |      | " "       | 125  | -              |
| Compressive Strength      | 2                   | Days | "         | 23.4 | -              |
|                           | 28                  | Days |           | 46.5 |                |
| Autoclave Expansion       | %                   |      | ISIRI 391 | 0.01 | Max 0.2        |

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