



ZÜMRÜT INTERNATIONAL KİMYA SAN. VE TİC.LTD

## Technical Data Sheet Calcium Chloride

|                                                               |                                                                                          |      |                                                                |                    |                |                                |
|---------------------------------------------------------------|------------------------------------------------------------------------------------------|------|----------------------------------------------------------------|--------------------|----------------|--------------------------------|
| Production unit name : Chloran<br>Chemical Production Company |                                                                                          |      | Sample name: Calcium Chloride                                  |                    |                | Sampling date:<br>2024/10/10   |
| Place of sampling : HP 1107 B                                 |                                                                                          |      | Sample condition : White Granulated, Particle<br>size : 1-4 mm |                    |                | Test date: 2024/10/10          |
| HS code:282720                                                |                                                                                          |      | Test resource: ISIRI13571, INSO 18193 & 18195                  |                    |                | Type of standard :<br>National |
| ITEM                                                          | TEST Name                                                                                | UNIT | IMPOETANCE<br>DEGREE                                           | ACCEPTING<br>LIMIT | TEST<br>RESULT | TEST METHOD                    |
| 1                                                             | Purity of calcium<br>chloride(CaCl <sub>2</sub> )                                        | %W/W | -                                                              | MIN 94             | 95.92          | INSO 18195<br>Clause 4-1       |
| 2                                                             | Ca(OH) <sub>2</sub> Relative to active<br>substance CaCl <sub>2</sub>                    | %W/W | -                                                              | MAX 0.2            | 0.03           | INSO 18195<br>Clause 4-3       |
| 3                                                             | Fluoride                                                                                 | %W/W | -                                                              | MAX 0.004          | 0.0022         | ISIRI 13571 Clause<br>6-5      |
| 4                                                             | Total Alkaline as NaCl Relative<br>to active substance CaCl <sub>2</sub>                 | %W/W | -                                                              | MAX 6              | 2.39           | INSO 18195<br>Clause 4-2-7     |
| 5                                                             | Total Manesium as MgCl <sub>2</sub><br>Relative to active substance<br>CaCl <sub>2</sub> | %W/W | -                                                              | MAX 0.5            | 0.04           | INSO 18195<br>Clause 4-2-4     |
| 6                                                             | pH                                                                                       |      | -                                                              | 4.5-9.5            | 9.1            | ISIRI 13571 Clause<br>3-4      |

### *Types of uses of calcium chloride for drilling purposes*

- *Drilling Fluids (Brines)*
- *Clay/Shale Stabilization*
- *Density Control*
- *Cementing Additive*
- *Corrosion Control*
- *Hydrate Suppression*
- *Environmental and Safety Benefits*



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