

## Forum Chemical Technical Specification Sheet

**Potassium Chloride**
**Standard & Fine Grade**

| CHEMICAL                                    |       |          |       |
|---|-------|----------|-------|
| Chemical Composition                        | Units | Standard | Fine  |
| Potassium Oxide, as K <sub>2</sub> O (min)  | %     | 61.0     | 60.7  |
| Potassium Chloride, KCl (min)               | %     | 96.5     | 96.0  |
| Sodium Chloride, as NaCl (max)              | %     | 2.60     | 2.80  |
| Magnesium Chloride, MgCl <sub>2</sub> (max) | %     | 0.50     | 0.80  |
| Calcium Chloride, CaCl <sub>2</sub> (max)   | %     | 0.06     | 0.06  |
| Moisture, as H <sub>2</sub> O (max)         | %     | 0.35     | 0.35  |
| Anti-Caking Amine                           | --    | Added    | Added |
| Mineral Oil                                 | --    | --       | --    |
|   |       |          |       |

**Tyler Mesh Typical Percentage**

| RETAINED                     |              |                                       |  |
|------------------------------|--------------|---------------------------------------|--|
| Tyler Mesh                   | Opening (mm) | Standard                              | Fine                                   |
| +10                          | 1.70         | 1 - 3                                 |  |
| +12                          | 1.40         | --                                    |  |
| +14                          | 1.18         | 8 - 15                                |  |
| +20                          | 0.85         | 20 - 40                               |  |
| +28                          | 0.60         | 40 - 60                               | 0 - 4                                  |
| +35                          | 0.425        | 65 - 85                               | 7 - 12                                 |
| +48                          | 0.30         | 88 - 95                               | 20 - 40                                |
| +65                          | 0.212        | 93 - 99                               | 45 - 65                                |
| +100                         | 0.150        |                                       | 75 - 85                                |
| +150                         | 0.106        |                                       | 80 - 90                                |
| Guaranteed (Tyler Mesh) [mm] |              | 90% min. between (10-65) [1.70-0.212] | 70% min. between (35-150)[0.425-0.106] |

| PHYSICAL PROPERTIES               |               |               |
|-----------------------------------|---------------|---------------|
|                                   | Standard      | Fine          |
| Stowage Factor                    | 36            | 34            |
| Bulk Density (MT/m <sup>3</sup> ) | 1.299 - 1.358 | 1.174 - 1.331 |
| Angle of Repose (Degrees)         | 28.5 - 29.5   | 29 - 30       |

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**Granular Grade**

| <b>CHEMICAL</b>                             |       |         |
|---|-------|---------|
| Chemical Composition                        | Units | Typical |
| Potassium Oxide, as K <sub>2</sub> O (min)  | %     | 61.0    |
| Potassium Chloride, KCl (min)               | %     | 96.5    |
| Sodium Chloride, as NaCl (max)              | %     | 2.50    |
| Magnesium Chloride, MgCl <sub>2</sub> (max) | %     | 0.80    |
| Calcium Chloride, CaCl <sub>2</sub> (max)   | %     | 0.06    |
| Moisture, as H <sub>2</sub> O (max)         | %     | 0.35    |
| Anti-Caking Amine                           | --    | Added   |
| Mineral Oil                                 | --    | Added   |

**Tyler Mesh Typical Percentage**

| <b>RETAINED</b>              |              |                                   |
|------------------------------|--------------|-----------------------------------|
| Tyler Mesh                   | Opening (mm) | Typical                           |
| +5                           | 4.00         | <10                               |
| +6                           | 3.35         | 20 - 40                           |
| +7                           | 2.80         | 45 - 75                           |
| +8                           | 2.36         | 71 - 92                           |
| +9                           | 2.00         | 95 - 99                           |
| Guaranteed (Tyler Mesh) [mm] |              | ≥ 85% between (9 - 5) [2.00-4.00] |

### PHYSICAL PROPERTIES

|                                   | Typical       |
|-----------------------------------|---------------|
| Stowage Factor                    | 38            |
| % Degradation (max)               | 10            |
| Bulk Density (MT/m <sup>3</sup> ) | 1.063 - 1.180 |
| Angle of Repose (Degrees)         | 32° - 34°     |
| Uniformity Index                  | 50 - 55       |
| Size Guide Number (SGN)           | 290 - 310     |