

# PRODUCT BULLETIN

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**ALLIED  
MINERAL**  
PRODUCTS, INC.

## CW PS SUPER PLASTIC

Super Duty Plastic

Maximum Service Temperature ..... 1705°C (3100°F)

Material Required ..... 2.45 g/cm<sup>3</sup> (153 lb/ft<sup>3</sup>)

Storage Beyond 6 Months is Not Recommended

### Chemical Composition (Dried Basis)

|                                      | <u>%</u> |
|--------------------------------------|----------|
| SiO <sub>2</sub> .....               | 49.6     |
| Al <sub>2</sub> O <sub>3</sub> ..... | 44.3     |
| TiO <sub>2</sub> .....               | 2.0      |
| SO <sub>3</sub> .....                | 1.3      |
| Fe <sub>2</sub> O <sub>3</sub> ..... | 1.2      |
| Alkali .....                         | 1.0      |
| MgO .....                            | 0.3      |
| CaO .....                            | 0.2      |

### Physical Properties at Room Temperature

| Temperature |      | Density           |                      | Linear Expansion | MOR |      | CCS  |      | Porosity |
|-------------|------|-------------------|----------------------|------------------|-----|------|------|------|----------|
| °C          | °F   | g/cm <sup>3</sup> | lb./ft. <sup>3</sup> | %                | MPa | psi  | MPa  | psi  | %        |
| 105         | 220  | 2.31              | 144                  | -1.1             | 3.6 | 520  | 9.5  | 1380 | -        |
| 480         | 900  | 2.27              | 142                  | -1.4             | 3.9 | 570  | 12.4 | 1800 | 22       |
| 1400        | 2550 | 2.11              | 132                  | -0.2             | 7.2 | 1050 | 18.6 | 2700 | 24       |
| 1510        | 2750 | 2.10              | 131                  | 0.5              | 6.2 | 900  | 17.2 | 2500 | 25       |
| 1650        | 3000 | 2.08              | 130                  | 0.6              | 9.6 | 1400 | 31.0 | 4500 | 23       |

(CWSP)

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