

# dupré MULLITE 55



## DESCRIPTION

Mullite 55 is a high quality refractory mineral with a typical Mullite content of 52%. It is available both in a flour form for slurry tanks and also in a comprehensive range of crushed and graded material produced with an exceptionally low dust content specifically for the investment casting industry.

## TYPICAL PROPERTIES

### TYPICAL PHYSICAL PROPERTIES

| Sand Grades   |                        | Dry Sieve Analysis (% retained) |               |               |               |               |               |                |                |               |
|---------------|------------------------|---------------------------------|---------------|---------------|---------------|---------------|---------------|----------------|----------------|---------------|
|               |                        | 14#<br>1180 µm                  | 18#<br>850 µm | 25#<br>600 µm | 36#<br>425 µm | 52#<br>300 µm | 70#<br>212 µm | 100#<br>150 µm | 150#<br>106 µm | 200#<br>75 µm |
| <b>16/30</b>  | <b>0.5 – 1.0 mm</b>    | 0 – 1                           | 20 – 50       | 20 – 50       | 10 – 30       | 0 – 10        | Trace         |                |                |               |
| <b>18/36</b>  | <b>0.425 – 0.85 mm</b> |                                 | 1 – 10        | 30 – 60       | 30 – 60       | 1 – 10        | Trace         |                |                |               |
| <b>22/60</b>  | <b>0.25 – 0.7 mm</b>   |                                 | Trace         | 10 – 20       | 20 – 50       | 20 – 50       | 10 – 20       | 1 – 10         | Trace          |               |
| <b>30/80</b>  | <b>0.18 – 0.5 mm</b>   |                                 |               | 0 – 1         | 10 – 30       | 20 – 50       | 20 – 40       | 1 – 10         | Trace          |               |
| <b>50/80</b>  | <b>0.18 – 0.3 mm</b>   |                                 |               |               | 0 – 1         | 1 – 10        | 60 – 90       | 10 – 30        | 1 – 10         |               |
| <b>50/150</b> | <b>0.1 – 0.3 mm</b>    |                                 |               |               | 0 – 1         | 1 – 10        | 20 – 50       | 30 – 50        | 10 – 30        | 1 – 10        |

| Flour Grades      | Wet Sieve Analysis (% retained) |               |               |                 | Particle Size Distribution<br>(Malvern Mastersizer 2000) |          |          |
|-------------------|---------------------------------|---------------|---------------|-----------------|--|----------|----------|
|                   | 150#<br>106 µm                  | 200#<br>75 µm | 325#<br>45 µm | -325#<br><45 µm | d10 / µm   | d50 / µm | d90 / µm |
| <b>-120 Grade</b> | 1 – 10                          | 10 – 20       | 20 – 40       | 40 – 60         | 9.1  | 47.5     | 110.1    |
| <b>-200 Grade</b> | -                               | Trace         | 10 – 20       | 89 – 90         | 6.2  | 29.6     | 66.0     |

### TYPICAL CHEMICAL ANALYSIS

|                                      |      |                          |      |                                     |      |
|--------------------------------------|------|--------------------------|------|-------------------------------------|------|
| <b>% SiO<sub>2</sub></b>             | 49.6 | <b>% CaO</b>             | 0.47 | <b>% K<sub>2</sub>O</b>             | 0.11 |
| <b>% Al<sub>2</sub>O<sub>3</sub></b> | 46.9 | <b>% TiO<sub>2</sub></b> | 0.95 | <b>% Na<sub>2</sub>O</b>            | 0.17 |
| <b>% Fe<sub>2</sub>O<sub>3</sub></b> | 1.11 | <b>% MgO</b>             | 0.02 | <b>% P<sub>2</sub>O<sub>5</sub></b> | 0.57 |

### PACKAGING AND STORAGE

- Mullite 55 is supplied in 25 kg paper sacks.
- Reseal packaging when not in use to prevent contamination and moisture pickup.
- Refer to the latest SDS for more information.

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*Information presented above is given in good faith as accurate and reliable but is not to be taken as a guarantee. The figures provided are intended to be a guide to expected average values and should not be interpreted as a specification. Any potential applications referred to are not to be construed as recommendations. It is the responsibility of the user to determine suitability for any specific purpose.*

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