

Powders



Barytes S

A high purity natural barium sulphate

Chemical Analysis

| | % |
|--------------------------------|-------|
| BaSO ₄ | 96.00 |
| CaCO ₃ | 0.30 |
| SiO ₂ | 0.40 |
| Al ₂ O ₃ | 0.03 |
| Fe ₂ O ₃ | 0.02 |
| Free Quartz | 0.1 |
| Loss on Ignition | 0.3 |

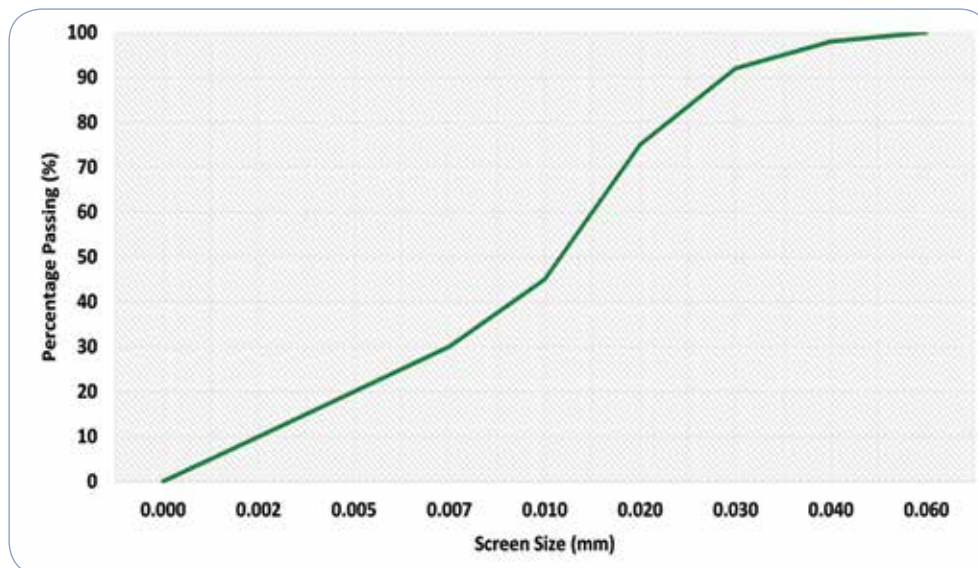
Physical Data

| | |
|-------------------------------------|---------|
| Specific Gravity g/cm ³ | 4.40 |
| Bulk Density Comp g/cm ³ | 2.20 |
| Hardness (Mohs) | 3 |
| Oil Absorption g/100g | 12 |
| pH Value | 7 |
| Moisture Content % | 0.1 |
| Whiteness Minolta Cr 200 | L* 95.0 |
| | a* 0.1 |
| | b* 1.4 |
| | Y 90.0 |

Commodity Code

2511 100000

Particle Size Distribution



Packing

25 kilo bags on pallets of 1000 kilos

Issue 1 March 2016

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DKI Quartz Flour 74/200

DKI Quartz Flour 74/200 is ground crystalline quartz

Chemical Analysis

| | % |
|--------------------------------|------|
| SiO ₂ | 96.3 |
| Al ₂ O ₃ | 2.5 |
| Fe ₂ O ₃ | 0.2 |
| CaO | 0.06 |
| MgO | 0.05 |

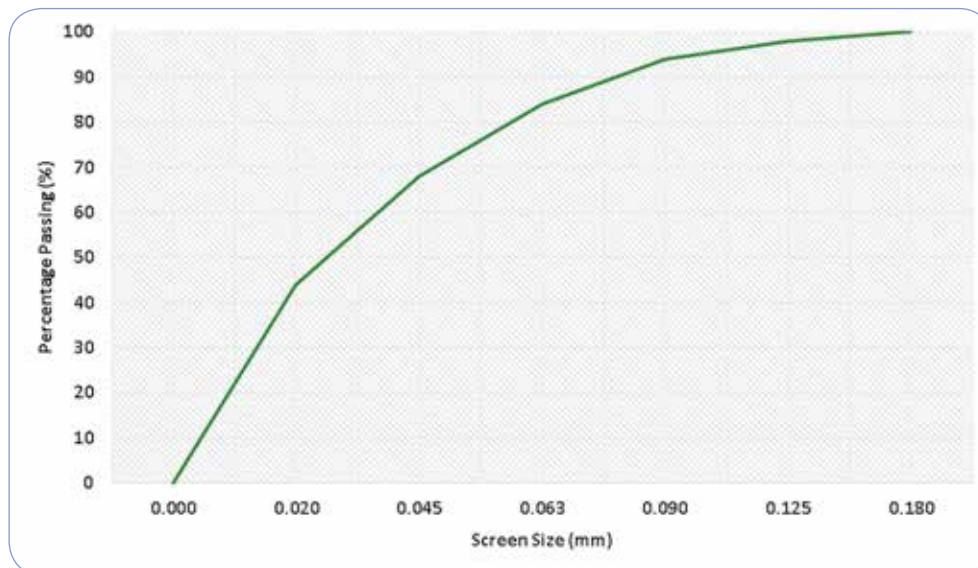
Physical Data

| | |
|------------------------------------|-----------|
| Colour | Off-White |
| Specific Gravity g/cm ³ | 2.65 |
| Hardness (Mohs) | 7.0 |
| Loss on Ignition | 0.04% |

Commodity Code

2505 900000

Particle Size Distribution



Health & Safety

Respirable dust from this product, if inhaled over a prolonged period, could constitute a health risk. If adequate dust extraction is not provided, suitable respiratory protection equipment should be worn.

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Dolomite A16

A high whiteness calcium magnesium carbonate

Chemical Analysis

| | % |
|--------------------------------|------|
| CaO | 30.5 |
| MgO | 20.2 |
| SiO ₂ | 3.5 |
| Al ₂ O ₃ | 0.7 |
| Fe ₂ O ₃ | 0.6 |
| MnO ₂ | 0.08 |
| Loss on Ignition | 44.0 |

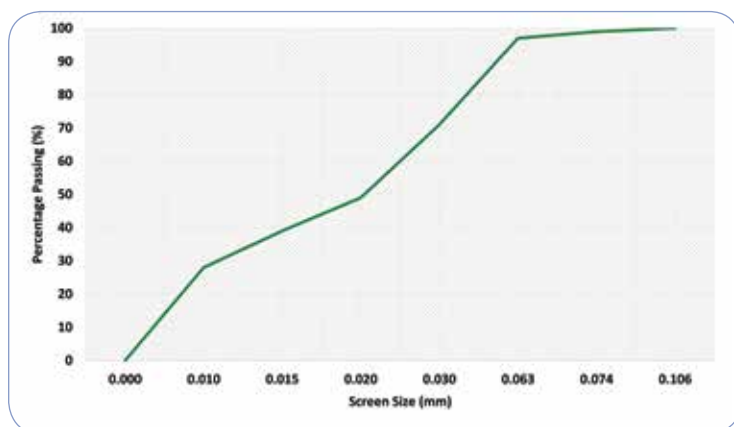
Physical Data

| | |
|--|-------------|
| Particle Shape | Rhombic |
| Structure | Crystalline |
| Specific Gravity g/cm ³ | 2.87 |
| Bulk Density Loose g/cm ³ | 1.10 |
| Bulk Density Comp g/cm ³ | 1.30 |
| Hardness (Mohs) | 3.0-4.0 |
| Whiteness (Y filter) % | 91 |
| Refractive Index | 1.60 |
| pH Value | 9-10 |
| Water Solubility % | 0.1 |
| Moisture Content % | 0.3 |
| Specific Surface (Blaine) cm ² /g | 3000 |
| Oil Absorption g/100g | 15 |
| DOP Absorption g/100g | 25 |
| Water Absorption g/100g | 20 |
| Insoluble in acid HCl % | 5.5 |

Commodity Code

2517 102000

Particle Size Distribution



Packing

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Dolomite A40

A high whiteness calcium magnesium carbonate

Chemical Analysis

| | % |
|--------------------------------|------|
| CaO | 30.5 |
| MgO | 20.2 |
| SiO ₂ | 3.5 |
| Al ₂ O ₃ | 0.7 |
| Fe ₂ O ₃ | 0.6 |
| MnO ₂ | 0.08 |
| Loss on Ignition | 44.0 |

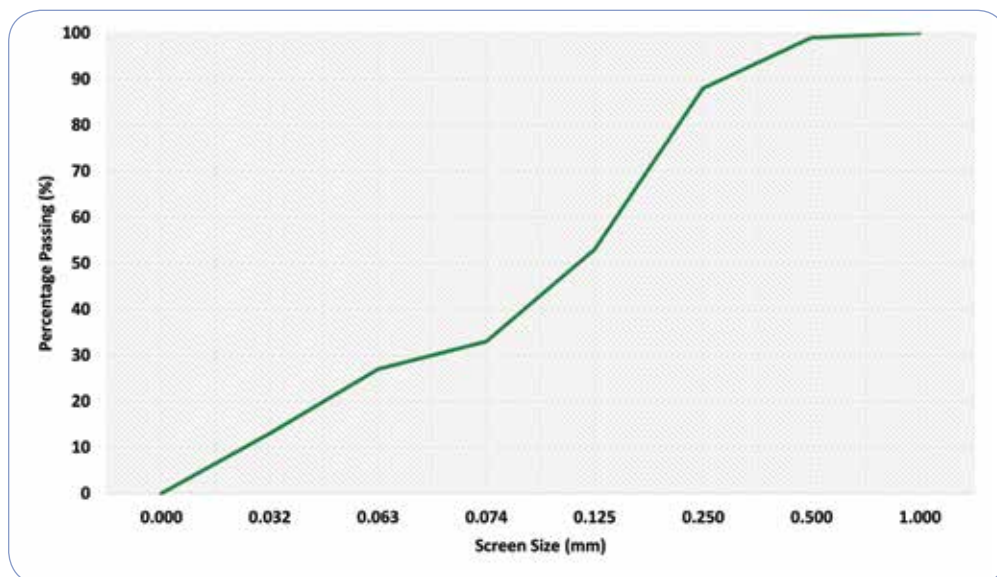
Physical Data

| | |
|--------------------------------------|-------------|
| Particle Shape | Rhombic |
| Structure | Crystalline |
| Specific Gravity g/cm ³ | 2.87 |
| Bulk Density Loose g/cm ³ | 1.50 |
| Bulk Density Comp g/cm ³ | 1.90 |
| Hardness (Mohs) | 3.0-4.0 |
| Whiteness (Y filter) % | 85 |
| Refractive Index | 1.60 |
| pH Value | 9-10 |
| Water Solubility % | 0.1 |
| Moisture Content % | 0.3 |
| Insoluble in acid HCl % | 5.5 |

Commodity Code

2517 102000

Particle Size Distribution



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Dolomite A50

A high whiteness calcium magnesium carbonate

Chemical Analysis

| | % |
|--------------------------------|------|
| CaO | 30.5 |
| MgO | 20.2 |
| SiO ₂ | 3.5 |
| Al ₂ O ₃ | 0.7 |
| Fe ₂ O ₃ | 0.6 |
| MnO ₂ | 0.08 |
| Loss on Ignition | 44.0 |

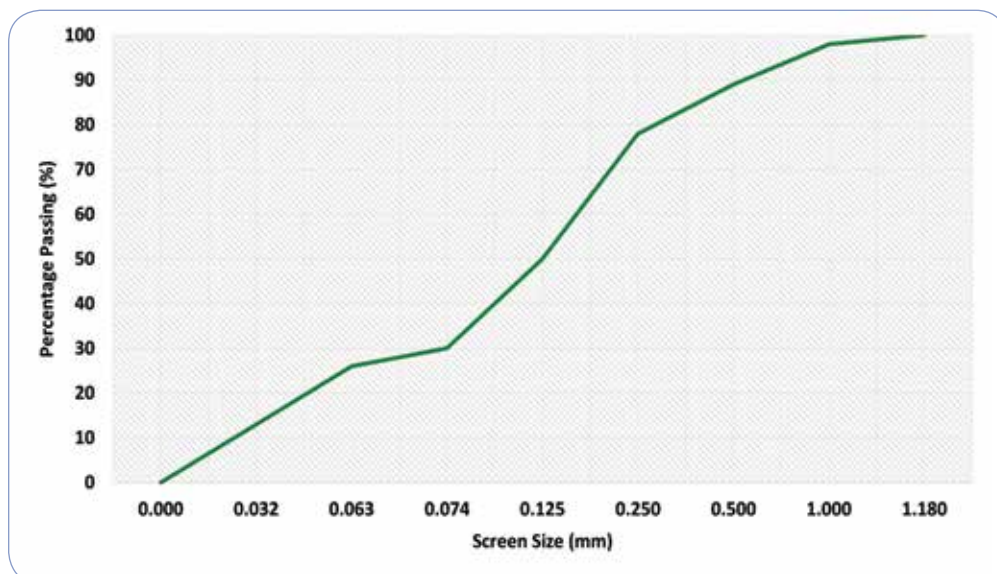
Physical Data

| | |
|--------------------------------------|-------------|
| Particle Shape | Rhombic |
| Structure | Crystalline |
| Specific Gravity g/cm ³ | 2.87 |
| Bulk Density Loose g/cm ³ | 1.50 |
| Bulk Density Comp g/cm ³ | 1.60 |
| Hardness (Mohs) | 3.0-4.0 |
| Whiteness (Y filter) % | 83 |
| Refractive Index | 1.60 |
| pH Value | 9-10 |
| Water Solubility % | 0.1 |
| Moisture Content % | 0.3 |
| Insoluble in acid HCl % | 5.5 |

Commodity Code

2517 102000

Particle Size Distribution



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Feldspar FF20

Milled, crystalline anhydrous sodium potassium aluminium silicate

Chemical Analysis

| | % |
|--------------------------------|------|
| SiO ₂ | 75.6 |
| Al ₂ O ₃ | 14.5 |
| Na ₂ O | 4.8 |
| K ₂ O | 4.2 |
| CaO | 0.2 |
| Fe ₂ O ₃ | 0.1 |

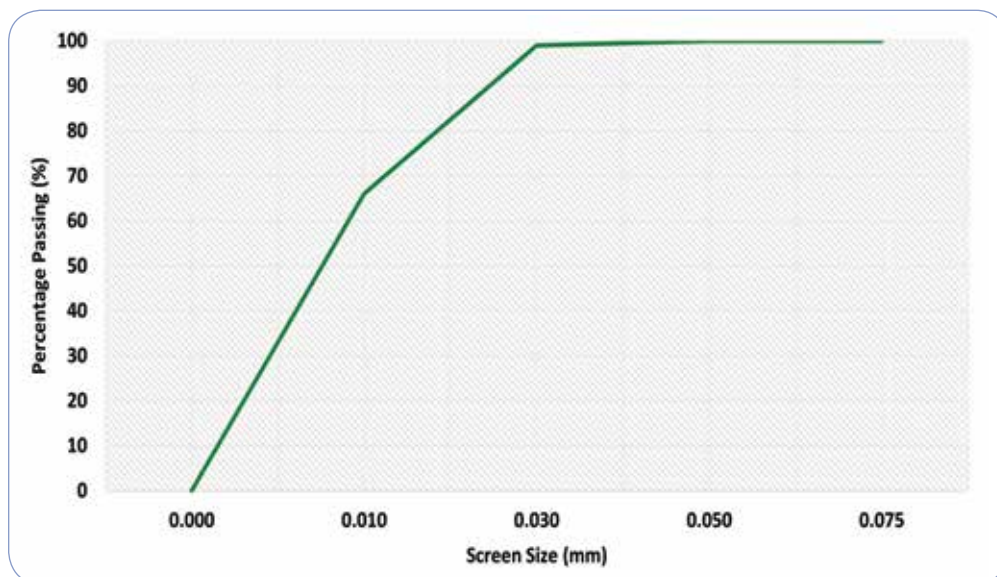
Physical Data

| | |
|---|-------------|
| Structure | Crystalline |
| Particle Shape | Nodular |
| Colour | White |
| Specific Gravity g/cm ³ | 2.6 |
| Bulk Density Loose g/cm ³ | 0.8-1.3 |
| Hardness (Mohs) | 6.5 |
| Brightness Index % | 80.8 |
| Refractive Index % | 1.53 |
| pH Aqueous Solution | 9.8 |
| Oil Absorption g/100g | 32 |
| Specific Surface Area M ² /g | 3.9 |
| Median Particle Size Microns | 6 |

Commodity Code

2529 100000

Particle Size Distribution



Packing

25 kilo bags on pallets of 1000 kilos

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Hydrated Lime

Calcium Hydroxide

Chemical Analysis

| | % |
|--------------------------------|---------|
| Ca(OH) ₂ | 96.62 |
| CaCO ₃ | 2.00 |
| MgO | 0.27 |
| Fe ₂ O ₃ | 0.05 |
| Al ₂ O ₃ | 0.07 |
| SiO ₂ | 0.42 |
| S | <0.01 |
| Mn | 130 ppm |
| Pb | 2 ppm |
| As | <1 ppm |

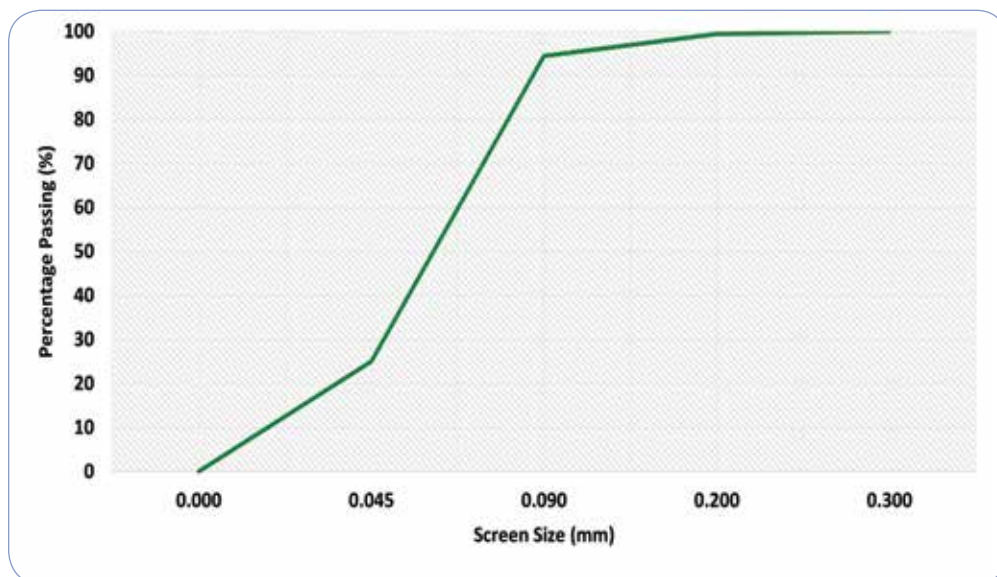
Physical Data

| | |
|--|-------|
| Free Moisture % | 0.50 |
| Available Lime as Ca(OH) ₂ % | 97.77 |
| Neutralisation Value as CaO % | 75.01 |
| BET Surface Area m ² g | 21.72 |
| Bulk Density Loose g/cm ³ | 0.56 |
| Bulk Density Compacted g/cm ³ | 0.67 |

Particle Size Distribution

Commodity Code

2522 300000



Packing

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Minex S2

Milled nepheline syenite. Silica free alternative to Feldspar and Silica Flour.

Chemical Analysis

| | % |
|--------------------------------|-------|
| SiO ₂ | 60.2 |
| Al ₂ O ₃ | 23.60 |
| Na ₂ O | 10.50 |
| K ₂ O | 4.80 |
| CaO | 0.35 |
| Fe ₂ O ₃ | 0.08 |

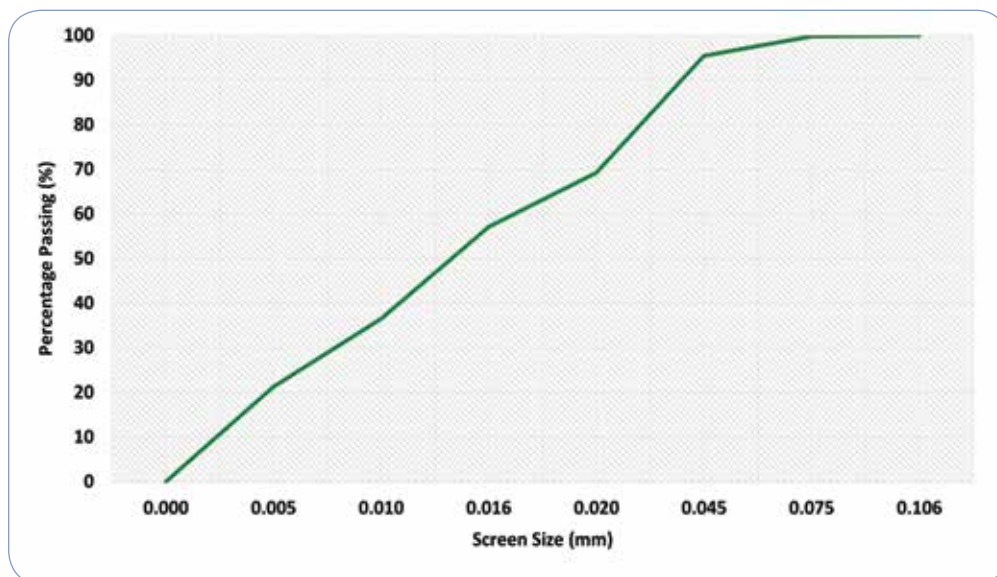
Physical Data

| | |
|--------------------------------------|-------------|
| Structure | Crystalline |
| Particle Shape | Nodular |
| Colour | White |
| Specific Gravity g/cm ³ | 2.61 |
| Bulk Density Loose g/cm ³ | 0.7-1.2 |
| Hardness (Mohs) | 6.0 |
| Brightness Index % | 85.9 |
| Refractive Index % | 1.55 |
| pH Aqueous Solution | 9.7 |
| Oil Absorption g/100g | 22.5 |
| Median Particle Size Microns | 14.3 |

Commodity Code

2529 300000

Particle Size Distribution



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Minex S4

Milled nepheline syenite. Silica free alternative to Feldspar and Silica Flour.

Chemical Analysis

| | % |
|--------------------------------|------|
| SiO ₂ | 56.1 |
| Al ₂ O ₃ | 24.3 |
| Na ₂ O | 8.3 |
| K ₂ O | 9.0 |
| CaO | 0.1 |
| Fe ₂ O ₃ | 0.1 |

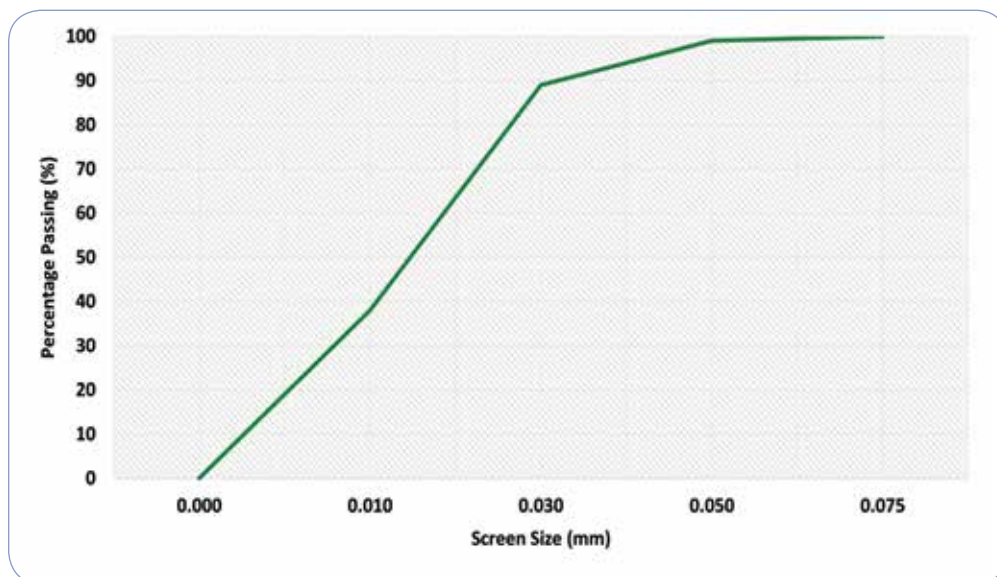
Physical Data

| | FF20 |
|---|-------------|
| Structure | Crystalline |
| Particle Shape | Nodular |
| Colour | White |
| Specific Gravity g/cm ³ | 2.61 |
| Bulk Density Loose g/cm ³ | 0.7-1.2 |
| Hardness (Mohs) | 6.0 |
| Brightness Index % | 81.5 |
| Refractive Index % | 1.51-1.53 |
| pH Aqueous Solution | 10.3 |
| Oil Absorption g/100g | 21 |
| Specific Surface Area M ² /g | 1.5 |
| Median Particle Size Microns | 9-12 |

Commodity Code

2529 300000

Particle Size Distribution



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White Portland Cement

Super White Portland Cement

Chemical Analysis

| | Typical Value | Unit | Requirement | Current Standard |
|--------------------------------|---------------|------|-------------|------------------|
| Sulphates CO ₃ | 3.0 - 3.7 | % | ≤4.0 | EN 196-2 |
| Chloride Cl | 0.005 - 0.02 | % | ≤0.10 | EN 196-2 |
| Alkali equiv Na ₂ O | 0.040 - 0.058 | % | ≤0.6 | |
| Insoluble Residue | 0.1 - 0.2 | % | ≤5.0 | EN 196-2 |
| Loss on Ignition | 3.0 - 3.7 | % | ≤5.0 | EN 196-2 |
| Water Solubility Cr+6 | 0.5 - 1.0 | ppm | ≤2.0 | EN 196-10 |

Physical Data

| | Typical Value | Unit | Requirement | Current Standard |
|------------------------------|---------------|--------------------|-------------|------------------|
| Specific Surface (Blaine) | 4400 - 5000 | cm ² /g | --- | --- |
| Setting Time minutes | 80 - 140 | minutes | ≥45 | EN 196-3 |
| Compressive Strength 2 days | 34 - 40 | MPa | ≥30 | EN 196-1 |
| Compressive Strength 28 days | 57 - 63 | MPa | ≥52.5 | EN 196-1 |
| Bulk Density Compacted | 3.02 - 3.06 | g/cm ³ | --- | --- |
| Bulk Density Loose | 0.88 - 1.02 | g/cm ³ | --- | --- |
| Whiteness (Y filter) | 85.0 - 85.6 | % | --- | CIE System |

Commodity Code

2523 210000

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Minerals

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