



ALMATIS

PREMIUM ALUMINA



Global Product Data

Global Almatis Aluminas for Refractories Applications

| Properties/method | Unit | CT 800 FG | | | T60/T64–20 micron* | | |
|--------------------------------|---------------------|-----------|-----|------|--------------------|-----|------|
| | | typical | Min | Max | typical | Min | Max |
| Specific Surface Area/BET | [m ² /g] | 0.9 | 0.7 | 1.2 | | | |
| Particle Size/+0.020mm | [%] | | | | 5.0 | 0 | 10.0 |
| Particle Size/D50 Cilas | [µm] | 3.5 | 2.5 | 5.0 | 2.0 | | 3.1 |
| Particle Size/wet sieve >45µm | [%] | 0.1 | | 3.0 | | | |
| Chemical Analysis | | | | | | | |
| Al ₂ O ₃ | [%] | 99.7 | | | 99.3 | | |
| Na ₂ O | [%] | 0.12 | | 0.15 | | | 0.40 |
| Fe ₂ O ₃ | [%] | 0.02 | | 0.04 | | | |
| Fe Magnetic | [%] | | | | | | 0.02 |
| SiO ₂ | [%] | 0.02 | | 0.04 | | | 0.15 |
| CaO | [%] | 0.03 | | | | | |

*T60/T64–20 micron MSDS154.

All data are based upon Almatis standard test methods.

The typical properties are based upon the actual averages from production data.

Think alumina, think Almatis.

GP-RCP/018/R04/0311/MSDS 154/387



Global Almatis Aluminas for Refractories Applications

| Properties/method | Unit | RG 4000 | | | CL 370 | | | E-SY 1000 | | |
|--------------------------------|---------------------|------------|-----|------|----------|-----|------|-----------|-----|------|
| | | typical | Min | Max | typical | Min | Max | typical | Min | Max |
| Specific Surface Area/BET | [m ² /g] | 7.2 | 6.0 | 9.5 | 3.0 | 2.6 | 3.4 | 2.0 | 1.6 | 2.3 |
| Particle Size/D50 Cilas | [µm] | 0.6 | 0.4 | 0.8 | 2.5 | 1.8 | 3.0 | 1.7 | 1.3 | 2.1 |
| Particle Size/D90 Cilas | [µm] | 3.0 | | 4.0 | 7.0 | 5.0 | 10.0 | 8.0 | 5.0 | 12 |
| Grain Size Distribution | | mono-modal | | | bi-modal | | | bi-modal | | |
| Chemical Analysis | | | | | | | | | | |
| Al ₂ O ₃ | [%] | 99.8 | | | 99.7 | | | 99.5 | | |
| Na ₂ O | [%] | 0.08 | | 0.10 | 0.10 | | 0.14 | 0.20 | | 0.35 |
| Fe ₂ O ₃ | [%] | 0.02 | | 0.04 | 0.03 | | 0.04 | 0.03 | | 0.06 |
| SiO ₂ | [%] | 0.03 | | 0.08 | 0.03 | | 0.07 | 0.03 | | 0.06 |
| CaO | [%] | 0.03 | | | 0.03 | | | 0.03 | | |

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Global Almatis Aluminas for Refractories Applications

| Properties/method | Unit | CTC 20 | | | CTC 40 | | | CTC 50 | | |
|--------------------------------|---------------------|------------|-----|------|----------|-----|------|-------------|-----|------|
| | | typical | Min | Max | typical | Min | Max | typical | Min | Max |
| Specific Surface Area/BET | [m ² /g] | 2.0 | 1.5 | 3.0 | 4.8 | 4.0 | 5.5 | 4.1 | 3.7 | 5.5 |
| Particle Size/D50 Cilas | [µm] | 1.8 | 1.4 | 2.3 | 1.2 | 0.8 | 1.5 | 1.5 | 1.1 | 1.9 |
| Particle Size/D90 Cilas | [µm] | 4.5 | | 6.0 | 5.5 | 4.7 | 6.8 | 7.5 | 6.0 | 9.0 |
| Grain Size Distribution | | mono-modal | | | bi-modal | | | multi-modal | | |
| Chemical Analysis | | | | | | | | | | |
| Al ₂ O ₃ | [%] | 99.7 | | | 99.8 | | | 99.7 | | |
| Na ₂ O | [%] | 0.12 | | 0.20 | 0.08 | | 0.12 | 0.16 | | 0.20 |
| Fe ₂ O ₃ | [%] | 0.03 | | 0.05 | 0.03 | | 0.06 | 0.03 | | 0.05 |
| SiO ₂ | [%] | 0.03 | | 0.08 | 0.03 | | 0.07 | 0.03 | | 0.10 |
| CaO | [%] | 0.03 | | | 0.03 | | | 0.03 | | |

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Global Almatis Aluminas for Refractories Applications



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