

**XYAL®100****Fumed Alumina****TECHNIQUE DATA SHEET**

XYAL100 is very fine, high-purity Aluminium Oxide( $Al_2O_3$ ) with a high specific surface area, maked aggregate and agglomerate structure. Due to the electropositive chargeability and unique particle characteristics, XYAL100 leads to specific properties in various applications.

**Physico-chemical Data**

| Properties   | Units             | Typical Value | Standardization |
|--|-------------------|---------------|-----------------|
| Specific Surface Area(BET)                                       | m <sup>2</sup> /g | 100±15        | GB/T10722       |
| pH Value (in 4% dispersion)                                      |                   | 4.5-5.5       | GB/T 1717       |
| Loss on Drying, Ex Works ( 2h @ 105°C)                           | wt%               | <1.5          | GB/T 5211.3     |
| Alumina content(based on the substance heated at 1000°C for 2 h) | wt%               | >99.6         | GB/T20020       |
| Sieve Residue((45µm)   | %                 | <0.050        | GB/T5211.14     |

At time of packaging.

**Application s and Properties****Application:**

- ◆ **Powder Coatings** : Improve chargeability and flowing;
- ◆ **Li-ion Batteries**: Increase the safety and life-time of ceramic coating for separators in Li-ion Batteries;
- ◆ **Thermal insulation material**: Show very high thermal and chemical stability in Thermal insulation material,e.g. Vacuum insulation plate,etc;
- ◆ **Silicone and Composite materials**: As filler for control density,heat conductivity and dielectric charateristics;
- ◆ **Photo Paper**: Provide high gloss and excellent printing;
- ◆ **Melt-blown fabric of Mask**: Used in electret masterbatch for improve the charge stability for better filtration efficiency of Mask;

**Properties:**

- ◆ High Purity, high Surface are and Low bulk density;
- ◆ Superfine particle size and good dispersion ability;
- ◆ Positive surface charge;
- ◆ Low water content;

**Packing and Storage**

XYAL® 100 is packaged in multiple layer kraft paper 10kg bags on pallet, and should be stored in the original packaging in dry storage areas for protecting the material from volatile substance.

**Transportation:**

Sea Transportation

20'GP: 1800KG, 10 pallets, 180KG/pallet.

40'GP: 3600KG, 20 pallets, 180KG/pallet.

40'HQ: 4000KG, 20 pallets, 200KG/pallet.

Road Transportation: by requirement

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