



APPU BRAND

AL. SILICATE

ABOUT THE PRODUCT:

Aluminium Silicate having the general formula Al_2SiO_3 is remarkable for its use as filler and antisepting agent in paint and as semi-reinforcing agent in rubber. It can be manufactured either by precipitation or by processing of the naturally occurring calcium silicate minerals. The precipitated variety gives better properties due to smaller particle sizes and higher white strength value.

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Replaces: None

PHYSIOCHEMICAL PROPERTIES

| PROPERTY | UNIT | Super Special Grade | Special Grade | Super Grade | Comm. Super | General Grade |
|--------------------------------|--------|---------------------|---------------|-------------|-------------|---------------|
| Appearance | - | White Powder | | | | |
| Bulk Density* | gm/cc | 0.20-0.25 | 0.24-0.28 | 0.30-0.35 | 0.35-0.40 | 0.40-0.46 |
| pH Value | - | 9-10 | 9-10 | 8.5 - 9.5 | 8-9 | 7-8 |
| Average Particle Size | micron | 5-6 | 5-6 | 5-6 | 5-6 | 6-8 |
| Residue on 700 mesh | % max | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 |
| Water absorption | % | 95-105 | 70-80 | 60-70 | 50-60 | 35-45 |
| SiO ₂ | % | 68 | 64 | 61 | 58 | 60 |
| Al ₂ O ₃ | % | 17 | 20 | 24 | 28 | 30 |
| Na ₂ O | % max | 0.05 | 0.06 | 0.05 | 0.05 | 0.05 |
| Moisture | % max | 3.0 | 2.0 | 1.5 | 1.5 | 0.5 |
| Packing | Kg/bag | 12.5 | 15 | 18 | 20 | 25 |

* At the time of packing

ADVANTAGE OF OUR PRODUCTS IN PAINTS:

- Part of white pigment like Titanium-dioxide (10% or more) can be replaced without loss of opacity.
- Give faster surface and through drying in product which also stand up better to abrasive treatment.
- Excellent substrates for high gloss finish as they ensure good leveling out.
- Act as anti-settling agents for pigments and fillers. The viscosity of decorative paints containing our product is highly constant over extended periods of time. Being basic, they also have positive effect on storage stability.
- Give excellent thicksotropy and facilitate drip less application.

ADVANTAGES IN RUBBER:

The particles of the filler used interact with the polymer, thus changing the properties of the mix and vulcanized material. For a filler with definite chemical composition, this interaction becomes more intensive as the surface area of the filler particles increases. Due to fine micronization of our products, they have very large surface area and thus give excellent properties in terms of tensile strength, modulus and resistance to tear and abrasion. They are particularly suitable for soling and micro cellular sheets as they give relatively fast cures and enable production of soling materials to be streamlined.

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CERTIFICATIONS

