

Bermocoll E 320 G

Ethyl hydroxyethyl cellulose

Bermocoll® E 320 G is a non-ionic, water soluble cellulose ether. It improves the consistency, the stability, and the water retention of water based products.

Specifications

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|---------------|----------------|
| Appearance | Whitish powder |
| Particle size | 98 % ≤ 1070 μm |
| Salt content | ≤ 5 % |
| Water content | ≤ 5 % |

Characteristics

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|---|-----------------|
| pH, 1% solution | 6-8 |
| Surface activity | Moderate |
| Viscosity at 20 °C (Brookfield LV), 2% solution | 1850-2650 mPa.s |

Notes:

Bermocoll® E 320 G is a low viscosity grade of ethyl hydroxyethyl cellulose.

Applications

Bermocoll® E 320 G is used to stabilize aqueous dispersions while avoiding problematic viscosity increase. Suitable dosage should be determined for each application, but is usually less than 0.5% of the total dispersion weight. Bermocoll® E 320 G is used in latex paints for thickening and stabilizing effects. Normal dosage is 0.4 - 0.8 % calculated on the total paint weight. Bermocoll® E 320 G is normally added as a ready stock solution. Bermocoll® E 320 G is also used in aqueous solutions as an adhesive for standard quality wallpapers. 200 g (oz) of Bermocoll® E 320 G in 6 litres (approx 1.5 gallon) of cold water will be just right for 12 paper rolls. Solutions should be prepared by addition of Bermocoll® E 320 G at a moderate rate and with good agitation to avoid lump formation. After dispersion of the grains, the agitation speed may be reduced. The average time to attain a noticeable viscosity increase is 3-5 minutes, and the time for complete dissolving is 20-30 minutes.

Storage

In unopened bags, Bermocoll® E 320 G can be stored for several years. In opened bags, the moisture content of Bermocoll® E 320 G will be influenced by the air humidity. At the temperatures above 250 °C (480 °F), charring of Bermocoll® E 320 G will occur.

Packaging and transport

Like many industrial processed powdery materials, cellulose ether dusts are combustible and can cause dust explosions. Dust formation must be avoided or kept to a minimum. Care should be taken to prevent ignition from heat, spark, open flames or hot surface. Bermocoll® E 320 G is packed in a polyethylene bag. Net weight 20 kg. We recommend emptying the bags from the bottom. The empty bags can be recycled or burned.

Safety and handling

At high temperatures and in contact with an open flame, Bermocoll® E 320 G will burn slowly with the characteristics of cellulose.

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