

Certificate Of Analysis



Chemical Name of Product : Magnesium Sulphate Heptahydrate
Brand Name of Product : **Ak^{mag}-st[®]**
Grade : TECHNICAL

Product Information :

Chemical Formula : MgSO₄ - 7H₂O
HS Code : 2833 21 00
EC Number : 231-298-2
CAS Number : 10034-99-4* (*Under the Toxic Substances Control Act (TSCA), hydrates are considered as mixtures of their anhydrous salt and water. Accordingly, the CAS Numbers 7487-88-9, 7732-18-5 are used for purposes of TSCA.)

Chemical Data :

Solubility : 710g/l (20°C)
Molar Mass : 246,48 g/
Density : 1,68 g/cm³ (20°C)
pH Value : 5 ~ 7,5 (1 in 20 H₂O, 25°C)

Specification:

MgO : ≥ 16%
S : ≥ 13%
SO₃ : ≥ 32%
Cloride (Cl) : ≤ 140 ppm (mg/kg)
Fe : ≤ 20 ppm(mg/kg)
Ca : ≤ 100 ppm(mg/kg)
Heavy Metals
Lead (as Pb) : ≤ 10 ppm(mg/kg)
Se : < 1 ppm(mg/kg)
As : < 1 ppm(mg/kg)

Pyhsical Data

Loss on drying(ignition) (450 °C) : 48 - 52 %
Assay (by complexometric calculated on dried substance) min.: ≥99,2 %
Moisture (@ 25 °C) DRY : Less then ≤ 1%
Appearance : Colourless, clear crystals
Odour : Odourless
Taste : Typical substance properties
Insolubility : Fully Soluble in water. No Residue left
Packing : Bags : 25kg PP/PE laminated bags.

Special characteristics:

Depending on ambient temperature and prevailing relative humidity the product is prone to absorption of water and dehydration, which can result in caking. Store at a cool and dry place. Excessive storage pressure and large temperature fluctuations can result in caking, which can be broken up by pounding of the bags.

Ak^{mag}-st[®] is registered Trade Mark of AKDAŞ CHEMISTRY Ind. Trade Ltd. Co.

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