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Magnesium Sulfate CAS 7487-88-9

Magnesium Sulfate Description

Magnesium sulfate (or magnesium sulphate) is an inorganic salt (chemical compound) containing magnesium, sulfur and oxygen, with the formula MgSO_4 . It is often encountered as the heptahydrate sulfate mineral epsomite ($\text{MgSO}_4 \cdot 7\text{H}_2\text{O}$), commonly called Epsom salt, taking its name from a bitter saline spring in Epsom in Surrey, England, where the salt was produced from the springs that arise where the porous chalk of the North Downs meets non-porous London clay. The monohydrate, $\text{MgSO}_4 \cdot \text{H}_2\text{O}$ is found as the mineral kieserite. The overall global annual usage in the mid 1970s of the monohydrate was 2.3 million tons, of which the majority was used in agriculture.

Magnesium Sulfate Specification

Magnesium sulphate ($\text{MgSO}_4 \cdot 7\text{H}_2\text{O}$)	99.5% min	96% min
Chloride	0.014% max	0.3% max
Ferrous	0.0015% max	0.005% max
Heavy metal (Pb)	0.001% max	0.001% max
Arsenic (As)	0.0002% max	0.0005% max
Insoluble matter in water	-----	0.15% max
Particle size	0.1-1mm	0.1-1mm

Magnesium Sulfate Application

1. In agriculture and gardening , magnesium sulfate is used to correct magnesium deficiency in soil (magnesium is an essential element in the chlorophyll molecule) .
2. Feed-grade magnesium sulfate as feed processing magnesium supplements .
3. Industry for tanning , fertilizer , paper , porcelain , printing dyes , lead-acid battery industry

Magnesium Sulfate Storage

1. magnesium sulphate must be stored in the tightly closed container, stored in a cool, dry, well-ventilated area away from incompatible substances.
2. Recommended storage conditions 68 - 100°F and 54 % - 87% relative humidity.



