THUNDER BAY CHEMICALS LTD

1100 Kam Road, Thunder Bay, Ontario P7E 6T7
Phone (807) 622-3741 Fax (807) 622-7544 24 Hour Phone (204) 222-3276

TECHNICAL DATA SHEET
ALUMINUM SULPHATE SOLID

Thunder Bay Chemicals Solid Aluminum Sulphate, available in ground form, finds major application in pulp and paper mills and water purification plants. It is also used in the treatment of leather, textiles, wallboard gypsum and as a component in fire-retardant agents.

General Characteristics

Chemical Formula	$Al_2(SO_4)_3 \cdot N\ H_2O$ N = Between 14 and 16 molecules of water
Appearance	White solid, ground
Bulk Density, loose	0.88 g/cc (55 lb/cu ft)
Bulk Density, packed	1.22 g/cc (76 lb/cu ft)
Cubic Capacity - piled bags	0.64 m^3/MT (25 cu ft/ST)

Parameters	Specification	Typical
Aluminum - Total available as Al_2O_3	17.0% min	17.2%
Iron - Total as Fe_2O_3	--	0.01%
Insoluble materials	0.15% max	0.05%
Basicity - as Al_2O_3	0.15% min	0.4%

Size Distribution - Mesh Size	Specification
Through 4	100%
Through 10	>90%

Toxicological and Health Data

Solid Aluminum Sulphate is a corrosive and irritating material. If you come in contact with aluminum sulphate, flush the area immediately with tepid water for at least 20 minutes. Obtain medical attention. Please see Safety Data Sheet for more information.

Transportation Information

Thunder Bay Chemicals Aluminum Sulphate Solid is supplied in 44 lb bags on 2,200 lbs stretch wrapped pallets, 1 tonne minibulk bags, and bulk pneumatic trailers. Thunder Bay Chemicals Ground Aluminum Sulphate is normally shipped in 44,000 lb truckload quantities

Solid Aluminum Sulphate is not regulated for transport in Canada.

In the US, when shipped as a single bulk package of 5,000 lbs. or more, this material is regulated as a US DOT hazardous material as follows: Reportable Quantity, UN 3077, Environmentally Hazardous Substance, solid, n.o.s. (Aluminum Sulphate), Hazard Class 9, Packing Group III.

NSF®
Certified to NSF/ANSI/CAN 60

Thunder Bay Chemicals Aluminum Sulphate Solid meets the American Water Works Association Standard Specification AWWA B403-16.

Thunder Bay Chemical has been NSF Certified since 1997. The maximum use dosage in drinking water is 150 mg/L according to NSF Standard 60.

Specifications apply to lot quantities. Quality analyses are carried out on representative samples of lot quantities.