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|  | Form No HR088 v.3 Nov-20 | | UNCONTROLLED IF PRINTED | | TECHNICAL DATA /SPEC SHEET | |
| | CREATION DATE | 01/01/2018 | Aluminium Sulphate | | TDS223W | |
| | VERSION NO. | 1 | | | | |
| | REVIEWED BY | T McLaughlin | | | | |
| | DATE | 20/01/2020 | | | | |
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Safety

8% Alum is an acidic solution with a pH less than 1 so care must be taken when handling the material. Minimum PPE requirements when likely to come into contact with Alum are rubber gloves and safety glasses. Should the material be under pressure we would recommend a visor and non-absorbable clothing. This Technical Data Sheet should be read in conjunction with Safety Data Sheet SDS238W.

The Product

8% Alum is a highly effective coagulant in water, wastewater and industrial waters.
This product conforms to the specification of BS EN 878:2016

Storage

8% Alum is an acidic solution that will corrode normal iron tanks. It must be stored in stainless steel (minimum 316 grade), GRP or plastic vessels. As with any chemical, it is recommended to clean the storage tank every year. The first delivery of any product should be made into a clean storage facility to ensure optimum performance and storage.

| Specification | | Trace Elements | |
|-----------------------------|--------------------------------|----------------|---------------|
| Chemical Name | Aluminium Sulfate | Arsenic (As) | < 14mg/kg Al |
| Synonym | Alum | Cadmium (Cd) | < 3mg/kg Al |
| Chemical Formula | $Al_2(SO_4)_3 \cdot nH_2O$ | Chromium (Cr) | < 30 mg/kg Al |
| CAS Number - $Al_2(SO_4)_3$ | 10043-01-3 | Mercury (Hg) | < 4mg/kg Al |
| Appearance | Colourless Clear Liquid | Nickel (Ni) | < 20mg/kg Al |
| Crystallisation Point | -7°C | Lead (Pb) | < 40mg/kg Al |
| Aluminium Content | 42.35 ± 1.27g Al/kg of Product | Antimony (Sb) | < 20mg/kg Al |
| Alumina Content | 8.00 ± 0.25 as % Al_2O_3 | Selenium (Se) | < 20mg/kg Al |
| Specific Gravity at 15°C | 1.319 ± 0.05 | Iron | < 1.6g/kg Al |
| Free Acid | < 1.00 % w/w H_2SO_4 | | |
| Shelf Life | 12 months | | |
| Insoluble matter | < 23g/kg Al | | |
| Solubility at -1°C | 44.7 g/kg Al | | |
| Gram Moles / Kg | 2.97 | | |
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