

	Form No HR088 v.3 Nov-20		UNCONTROLLED IF PRINTED		TECHNICAL DATA /SPEC SHEET	
	CREATION DATE	01/01/2018	<b>Ferric Aluminium Sulphate (FAS)</b>		<b>TDS219W</b>	
	VERSION NO.	1				
	REVIEWED BY	T McLaughlin				
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Safety
<p>FAS 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 FAS 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 SDS235W.</p>

The Product
<p>FAS is a highly effective coagulant in water, wastewater and industrial waters. Based on the trivalent Iron and Aluminium metals, it has been shown to give benefits over single metal coagulants. It is also highly effective in phosphate removal sites where sulfides may also be present.</p> <p><b>This product conforms to the specification of BS EN 887:2016</b></p>

Storage
<p>FAS 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.</p>

Specification		Trace Elements	
<b>Chemical Name</b>	Aluminium Iron (III) Sulfate	<b>Arsenic (As)</b>	< 14mg/kg Al + Fe
<b>Synonym</b>	FAS	<b>Cadmium (Cd)</b>	< 3mg/kg Al + Fe
<b>Chemical Formula</b>	$Al_2(SO_4)_3 \cdot Fe_2(SO_4)_3 \cdot nH_2O$	<b>Chromium (Cr)</b>	< 30 mg/kg Al + Fe
<b>CAS Number - <math>Al_2(SO_4)_3</math></b>	10043-01-3	<b>Mercury (Hg)</b>	< 4mg/kg Al + Fe
<b>CAS Number - <math>Fe_2(SO_4)_3</math></b>	10028-22-5	<b>Nickel (Ni)</b>	< 20 mg/kg Al + Fe
<b>Appearance</b>	Yellow / Brown Liquid	<b>Lead (Pb)</b>	< 40mg/kg Al + Fe
<b>Crystallisation Point</b>	-10 °C	<b>Antimony (Sb)</b>	< 20mg/kg Al + Fe
<b>Aluminium Content as</b>	2.5% ± 0.5%	<b>Selenium (Se)</b>	< 20mg/kg Al + Fe
<b>Iron Content</b>	4.3% ± 0.5%	<b>Calcium (Ca)</b>	< 310 mg/l <sup>-1</sup>
<b>Specific Gravity at 15°C</b>	1.288 ± 0.008	<b>Copper (Cu)</b>	< 30 mg/l <sup>-1</sup>
<b>Free Acid</b>	< 2.00 % w/w H <sub>2</sub> SO <sub>4</sub>	<b>Manganese (Mn)</b>	< 200 mg/l <sup>-1</sup>
<b>Shelf Life</b>	12 months		
<b>Insoluble matter</b>	< 0.05%		