



Technical Data Sheet (TDS)
Ferrous Sulfate

Chemical Name	Ferrous Sulfate
Chemical Formula	FeSO ₄ ·7H ₂ O
Cas No	7782-63-0
EC No	616-510-7

Parameter	Specification
Ferrous sulfate heptahydrate (FeSO ₄ ·7H ₂ O)	Min. 99 % (w/w)
Water soluble Fe	19,5 ± 0,5 % (w/w)
Water soluble SO ₄	34,5 ± 0,5 % (w/w)
pH (1 % solution)	2,0–4,0
Density	1,895 g/cm ³
Molar mass	278,02 g/mol
FeSO ₄	53 ± 1 % (w/w)
Crystal water	45 % (w/w)
Mass fraction of free sulfuric acid	Max. 0,2 % (w/w)
Free moisture	Max. 1 %
Lead (Pb)	Max. 50 ppm
Cadmium (Cd)	Max. 20 ppm
Nickel (Ni)	Max. 10 ppm
Mercury (Hg)	Max. 5 ppm
Arsenic (As)	Max. 5 ppm
Solubility	99,5–100,0 %
Crystal size	0,1–3,5 mm
Melting point	61–65 °C (elimination of water of crystallization)
Physical state	Solid
Appearance	Clear, full, green crystals
Taste	Typical
Odour	Odourless
Storage	Protect from direct sunlight, heat and rain

BORTERA KİMYA VE TİCARET LİMİTED ŞİRKETİ

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