

TECHNICAL DATA SHEET

FERROUS(II) SULPHATE HEPTAHYDRATE, DRIED (FOR INDUSTRIAL APPLICATIONS) FESPOL®20

Chemical formula: $\text{FeSO}_4 \cdot 7\text{H}_2\text{O}$
No. CAS: 7782-63-0
No. EINECS: 231-753-5

Guarantee parameters:

No.	Determined parameters	Unit	Requirements
1	Form*	Crystalline powder, light green colour	
2	Content of ferrous ions (Fe^{2+})	% m/m	min. 19.5
3	Content of $\text{FeSO}_4 \cdot 7\text{H}_2\text{O}$	% m/m	min. 97.0
4	pH of 5% solution	-	2.5 - 4.0
5	Content of matters insoluble in water**	% m/m	max. 0.5

* The product may contain traces of brown inclusions, a mixture of ferrous(II) sulphate heptahydrate and tetrahydrate.

** It applies only for the grade produced without anti-caking agent.

The above-mentioned parameters are confirmed in the certificate of laboratory testing at each delivery.

Declared parameters:

No.	Determined parameters	Unit	Requirements
1	Bulk density	g/cm^3	0.7 - 0.9
2	Tamped density	g/cm^3	0.95 - 1.15
3	Content of free acids as H_2SO_4	% m/m	max. 0.5
4	Content of magnesium compounds as MgSO_4	% m/m	max. 6.0
5	Content of titanium compounds as TiO_2	% m/m	max. 0.5
6	Content of other inorganic salts (Al, Ba, Ca, Mn) as anhydrous sulfates	% m/m	max. 0.5
7	Content of anti-caking agent*	% m/m	max. 0.9

* Clinoptilolite (1g568) or Sepiolite (E 562) for the grade produced with anti-caking agent.

Packing: Big-bags 500 kg, 1000 kg, or being transported in bulk.

Transport demands: RID/ADR class - not applicable.

The material should be transported in covered means of transport according to transport regulations being in force.

Storage: Stored in dry and roofed places, on the tightly closed package. Protect against moisture. Keep product away from heat sources.

Term of use: 12 months after the date of production.

Safety: Detailed information is included in Material Safety Data Sheet.

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FESPOL®20

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Elements:

No.	Determined parameters	Unit	Requirements
1	As	ppm	max. 30
2	Ba	ppm	max. 600
3	Cd	ppm	max. 10
4	Hg	ppm	max. 0.3
5	Mn	ppm	max. 600
6	Pb	ppm	max. 100

The declaration of conformity concerning the declared parameters and the content of the elements is delivered upon the customer's request.

The data provided in this specification are based on the current knowledge about the product and do not replace the tests performed as part of delivery quality control.