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Magnafloc® 5250

Anionic flocculant

Description

Magnafloc 5250 is manufactured by a new process route, incorporating UMA® technology, which produces a product that combines the effects of both improved solids settling and compaction along with maximum clarity of top water.

Magnafloc 5250 is a high molecular weight anionic polyacrylamide flocculant supplied as a free flowing granular powder.

Principal uses

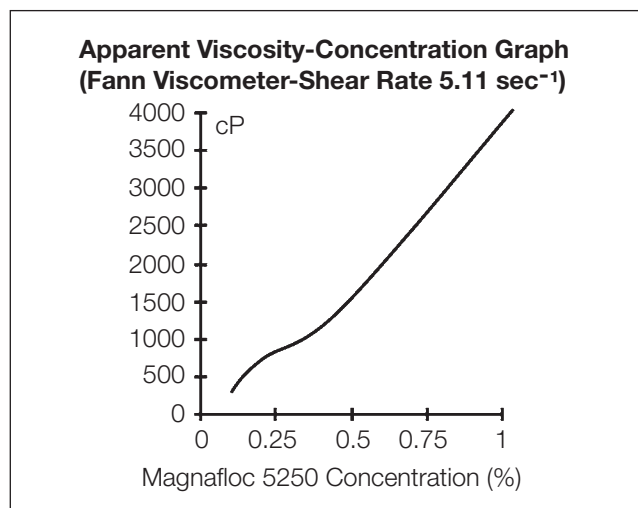
Magnafloc 5250 has found application in a wide variety of mineral processing operations including the following:

1. Sedimentation of coal tailings
2. Sedimentation of diamond slimes
3. Mineral sands tailings thickening
4. Base metal tailings thickening

Dosage depends on application but normally lies in the range 5–200 g/tonne of dry substrate flocculated.

Typical properties

Physical form:	Off-white granular powder
Particle size:	98 % < 1000 µm
Bulk density:	0.7 g/cm ³
pH of 1 % solution at 25 °C:	7.2
Viscosity at 25 °C:	See graph and table



Application & Storage

Recommended solution concentrations:

Stock solution: 0.25–0.5 % max.
 Feed solution: 0.025–0.1 % max.

Shelf life

2 years from receipt of goods

Stock solution: 1–2 days

Storage of polymer should be in a cool, dry place.

Details on preparation and application can be obtained from a BASF representative.

Solution viscosity data (Fann viscometer – 25 °C – solvent – deionised water)						
Magnafloc 5250 concentration (%)	Shear rate (sec⁻¹)					
	5.11	10.22	170	340	511	1022
	Viscosity (cP)					
1.0	3900	2200	234	144	122	98
0.5	1400	800	114	72	58	44
0.25	700	400	60	39	31	25
0.10	400	200	27	18	14	10

Shipping & Handling

Magnafloc 5250 is supplied in 25 kg nett plastic bags shrinkwrapped onto a pallet suitable for export shipment. The product can also be supplied via intermediate big bags or bulk tanker. Specific details of bag and tanker sizes can be obtained on request.

Corrosivity towards most standard materials of construction is low, but aluminium and galvanised equipment should be avoided.

Technical service

Advice and assistance in the running of laboratory and plant tests to select the correct product and determine the best application can be provided by representatives of BASF, who are experienced in mineral processing applications.

Health & Safety

Magnafloc 5250 has a low order of oral toxicity and does not present any abnormal handling problems.

Detailed information on handling and any precautions to be observed in the use of the product(s) described in this leaflet can be found in our relevant safety data sheet.

Note

The data contained in this publication are based on our current knowledge and experience. In view of the many factors that may affect processing and application of our product, these data do not relieve processors from carrying out their own investigations and tests; neither do these data imply any guarantee of certain properties, nor the suitability of the product for a specific purpose. Any descriptions, drawings, photographs, data, proportions, weights etc. given herein may change without prior information and do not constitute the agreed contractual quality of the product. It is the responsibility of the recipient of our products to ensure that any proprietary rights and existing laws and legislation are observed.

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