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Magnafloc® 156

Anionic flocculant

Description

Magnafloc 156 is a high molecular weight anionic polyacrylamide flocculant supplied as a free flowing micro bead.

Principal uses

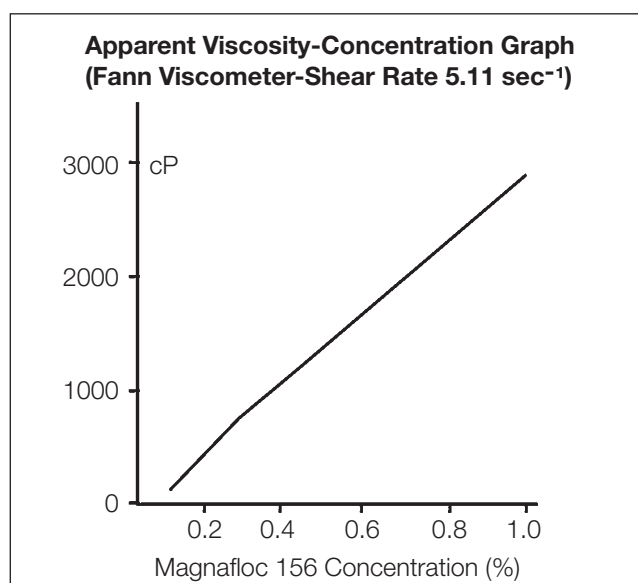
Magnafloc 156 has found application in a wide variety of mineral processing operations including the following:

1. Base metal sulphide and oxide concentrates thickening and filtration
2. Sedimentation of coal tailings
3. Sedimentation of coal fines
4. Filtration of coal fines
5. Sedimentation and filtration of metal hydroxides
6. Sedimentation of fine sand and clays
7. Brine clarification
8. Phosphate slimes thickening

Dosage depends upon the application but normally lies in the range 2–200 g/tonne of dry substrate flocculated.

Typical properties

Physical form:	Off-white free flowing micro bead
Particle size:	85 % < 425 µm
Bulk density:	0.75 g/cm ³
pH of 1 % solution at 25 °C:	6.0
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 156 concentration (%)	Shear rate (sec⁻¹)					
	5.11	10.22	170	340	511	1022
	Viscosity (cP)					
1.0	2797	1425	243	150	119	67
0.5	1298	800	118	79	62	41
0.25	599	375	60	40	33	22
0.10	200	150	27	19	16	10

Shipping & Handling

Magnafloc 156 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 156 exhibits a very low order of oral toxicity and does not present any abnormal problems in its handling or general use.

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 health and safety information 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.

March 2013

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