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# Magnafloc® 1011

## Anionic flocculant

### Description

Magnafloc 1011 is a very high molecular weight anionic polyacrylamide flocculant supplied as a free flowing granular powder.

### Principal uses

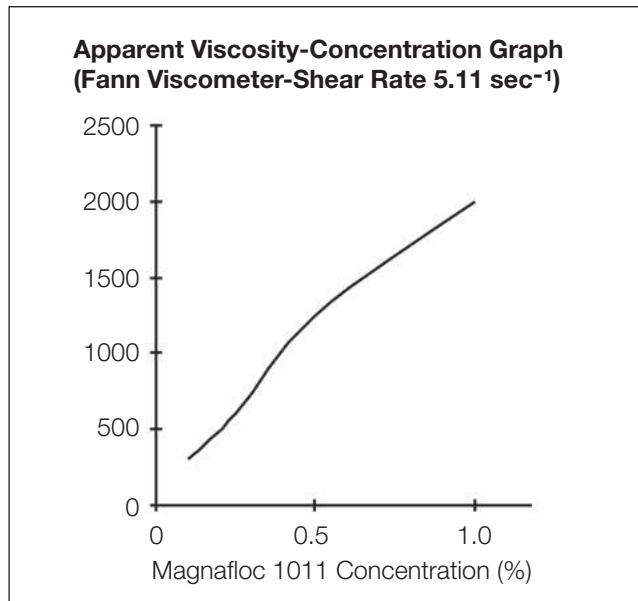
Magnafloc 1011 has found application in a wide variety of mineral processing operations including the following:

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. Deep cone thickening of coal fines
6. Sedimentation of fine sands and clays
8. Iron ore tailing
9. Clarification of acid leach pulp (copper)
10. Sulphur extraction
11. Hard Rock Drilling Fluid

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 granular powder
Particle size:	98 % < 1000 µm
Bulk density:	0.7 g/cm <sup>3</sup>
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 1011 concentration (%)	Shear rate (sec <sup>-1</sup> )					
	5.11	10.22	170	340	511	1022
	Viscosity (cP)					
1.0	1997	1325	192	105	75	65
0.5	1248	725	102	75	67	48
0.25	606	350	48	41	37	20
0.10	300	150	27	20	17	12

**Shipping & Handling**

Magnafloc 1011 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 1011 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.

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**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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