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# Rheomax® DR 1030

## Anionic polymer

### Description

Rheomax DR 1030 is a member of the Rheomax DR 1000 Series of advanced polymers which are designed to enhance thickener performance by providing a strong aggregate structure and tolerance of flux variations, resulting in superior solids liquids separation. High underflow density and maximized water recovery are delivered together with a low relative yield stress to ease both raking and pumping. The Rheomax DR products maximise economic and environmental benefits where superior dewatering is required.

### Principal uses

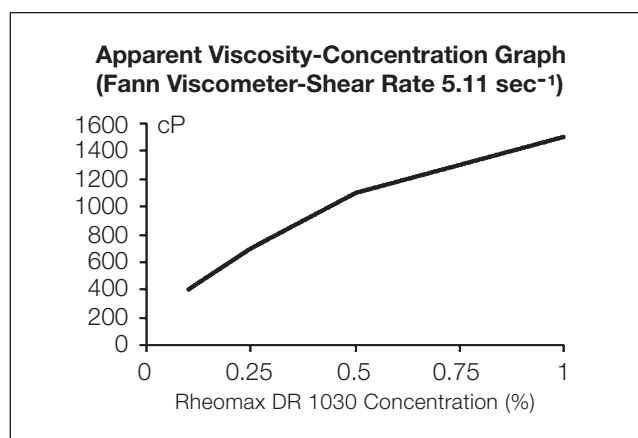
Rheomax DR 1030 has shown success in a variety of mineral processing operations including the following:

1. Paste thickening
2. Mine Backfill
3. CCD's
4. Base-metal and gold tailings
5. Base-metal and gold concentrates
6. Mineral Sand slimes

Dosage depends on 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:	0.75 g/cm <sup>3</sup>
pH of 1 % solution at 25 °C:	6.5
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**

Two 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.

<b>Solution viscosity data (Fann viscometer – 25 °C – solvent – deionised water)</b>						
<b>Rheomax DR 1030 concentration (%)</b>	<b>Shear rate (sec<sup>-1</sup>)</b>					
	5.11	10.22	170	340	511	1022
	<b>Viscosity (cP)</b>					
1.0	1500	1000	180	126	103	65
0.5	1100	700	90	65	54	38
0.25	700	450	60	41	33	22
0.10	400	250	33	24	17	12

**Shipping & Handling**

Rheomax DR 1030 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**

Rheomax DR 1030 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.

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