



Big bags 1000 kg



Bags 25 kg



Pellet length 7 – 12 mm



Swelling capacity 50 – 60%

TECHNICAL DATA

Mikolit®

300M

Mikolit® 300M is a modified Mikolit® 300. Magnetite, a strong magnetic, ferrous mineral, is added to the raw material. This ensures that introduced clay layers are detectable, from a finished well, using simple equipment. The swelling and sealing of Mikolit® 300M is only slightly influenced by the additive. After the spaces between the pellets have been filled out, more than sufficient swelling capacity remains, which means that, in case of settings, the clay layer will repair itself. After water absorption the introduced clay layer is not water-saturated and it is therefore a rather firm clay layer. Quality 300M has sublime bulk properties, thanks to the fact that the product is free of dust, has decelerated swelling, favourable pellet size and, thanks to the additive, increased density. Despite the high swelling capacity, the selected raw materials ensure that the product is little adhesive to tubes, which makes the product very suitable for tubing drilling. It is recommended to apply a support layer, consisting of coarse sand, on interfaces between the clay pellets and gravel. When applied in saline water sufficient swelling capacity remains to ensure correct sealing.

| | |
|---------------------------------|-------------------------------|
| Product name: | Mikolit® 300M |
| Pellet colour: | Black / grey |
| Pellet size: | Ø ± 8 mm, length 7 – 12 mm |
| Packaging: | Bags 25 kg / big bags 1000 kg |
| Sinking speed in water: | 21 m/min |
| Density water saturated: | 2,0 t/m ³ |
| Bulk density: | 1,3 t/m ³ |
| Start of swelling: | 15 min |
| Swelling capacity: | 50 – 60% ¹⁾ |
| Permeability: | < 10 ⁻¹¹ m/s |
| Swelling pressure: | 6 – 8 kN/m ² |
| γ-radiation: | 80 – 100 API |

¹⁾ Free swelling in beaker, using DI Water, additional to pore volume.

Mikolit® products are distributed by:

kiwa
approved



KIWA QUALITY

BRL KO-265 cert.nr.K58348

Quantity needed (kg/m)

Bore-hole (mm) ▶

| | 300M | 100 | 125 | 150 | 200 | 250 | 300 | 400 | 500 | 600 |
|-----|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 0 | 0 | 10 | 16 | 23 | 41 | 63 | 91 | 162 | 254 | 365 |
| 50 | | 8 | 13 | 20 | 38 | 61 | 89 | 160 | 251 | 363 |
| 100 | | | 6 | 13 | 30 | 53 | 81 | 152 | 243 | 355 |
| 125 | | | | 7 | 25 | 48 | 75 | 146 | 238 | 349 |
| 160 | | | | | 15 | 37 | 65 | 136 | 228 | 339 |
| 200 | | | | | | 23 | 51 | 122 | 213 | 324 |
| 250 | | | | | | | 28 | 99 | 190 | 302 |
| 315 | | | | | | | | 63 | 153 | 264 |
| 400 | | | | | | | | | 91 | 203 |
| 500 | | | | | | | | | | 112 |



MGS Europe GmbH
Brüsseler Allee 21c
41812 Erkelenz
Germany

Tel + 49(0) 2431
945762
info@mgs-europe.de
www.mgs-europe.de

The producer retains the right to change specifications or combination of the products without further notice.