

WEDOLiT™ EP 540 ES

**Expander Oil, Easy-splitting Technology,
mineral oil based**



WEDOLiT EP 540 ES is a highly viscous, high-performance, mineral-oil-based forming oil. The product has been developed to the highest technical standard for the utilization in the pipe industry (e.g. manufacturing of large diameter pipes, for gas and oil pipelines). The product can be used undiluted and due to the high content of polar additives, prevents the stick-slip-effect.



Physical Properties Typical Data

| Parameter | Typical results | Tested according to |
|---------------------|----------------------------|---------------------|
| Appearance: | Brown, viscous fluid | Visual |
| Density at 68°F: | 0.96 g/cm ³ | ASTM D 7042 |
| Viscosity at 104°F: | > 380.0 mm ² /s | ASTM D 7042 |
| 4-ball test: | > 4000 N (typ. 4400 N) | DIN 51350 T2 |
| Copper corrosion: | 1a | DIN EN ISO 2160 |

| Mineral oil | Ester | EP-additives | AW-additives | Zn-additives | Chlorine |
|-------------|-------|--------------|--------------|--------------|----------|
| + | + | + | + | - | - |

Application Guidelines

The product should be stored frost-free, between 50 - 104°F, (10 - 40°C). With decreasing storage-temperature the product viscosity increases. Example for this product class: v_{15} = approx. 5000 mm²/s, v_{10} = approx. 9000 mm²/s. Please keep this in mind regarding pump dimensioning (a preheating of the product might be necessary).

The minimum durability is 12 months in an original sealed package.

Additional Information

The information herein is given in good faith and believed current as of the date of publication and should apply to the current formula version. Because conditions of use are beyond our control, no guarantee, representation, or warranty expressed or implied is made. Consult Master Fluid Solutions for further information. For the most recent version of this document, please go to this URL:

https://2trim.us/diw/?plr=EP-540-ES*en-ap*ap

WEDOLiT™ EP 540 ES

©2015-2026 Master Fluid Solutions™ | 2026-06-23

Choose WEDOLiT EP 540 ES:

- Very high film stability (even under high pressures)
- Good adhesion properties on smooth surfaces, very good wear protection
- Easily removable with water (spontaneous emulsification)
- The emulsion can be used for pre- and post-cleaning of the pipes and expander heads and can be easily separated into water and oily waste by utilizing specific additives
- Due to the unique easy-splitting-technology, only a very small amount of the splitting media is needed
- The treated water can be reused for the preparation of a new emulsion (to a certain degree)

Health and Safety

For further information, see the most recent SDS which is available directly from Master Fluid Solutions.