

Special products

rhenus TU 46 P

Water-miscible
metalworking fluid

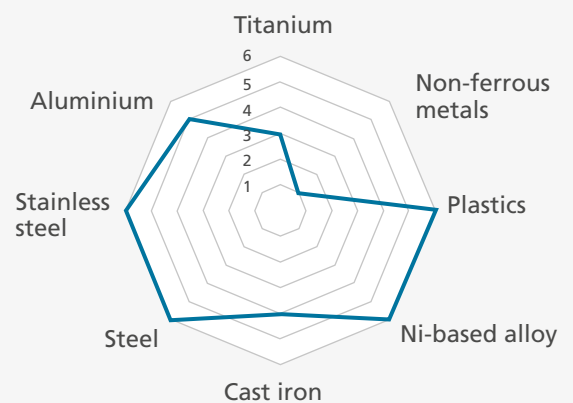


- Achieve effective reductions in the costs of cutting tools!
Optimum lubrication for long service life and maximum productivity!
- Particularly suitable for heavy-duty machining operations on high-alloy steels (e.g. 1.4848, 1.4849), delivering excellent results in everything from the automotive sector (e.g. turbochargers) to deep-hole drilling.
- Extremely low-foaming metalworking fluid. No troublesome excess foaming!
- Maximum long-term stability with no use of boron, formaldehyde releasers or secondary amines

Key properties

- Suitable for central systems and individual units
- Tested by machine manufacturers – e.g. approved by GROB-Werke GmbH & Co. KG
- Low maintenance requirements
- Excellent flushing properties and powerful corrosion protection for clean, well-kept machines

Suitable materials



6 = ideally suited 0 = less well suited

Performance

Investigation of shiny areas on roller rail systems (RWTH Aachen University)



Surface of linear guides/slideways tested:
rhenus TU 46 P / rhenus SLB 220
(MWF/slideway oil combination)
Effective prevention of MWF-related shiny areas.
Approved by machine tool manufacturer
GROB-Werke.



If you have any questions, please do not hesitate to email us at sales@rhenusweb.de or call us on +49 2161 5869-0

Areas of application



Grinding



Turning



Drilling



Deep drilling



Milling

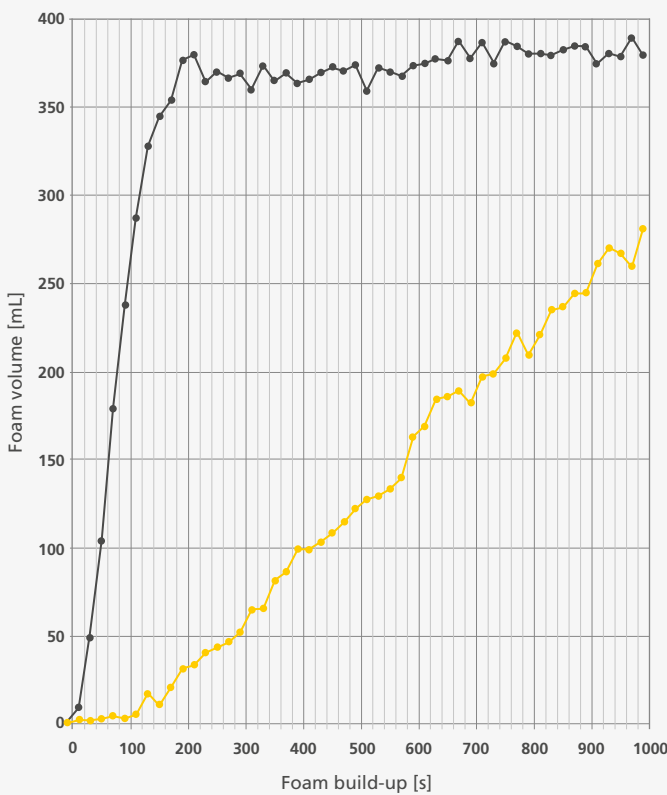


Thread cutting



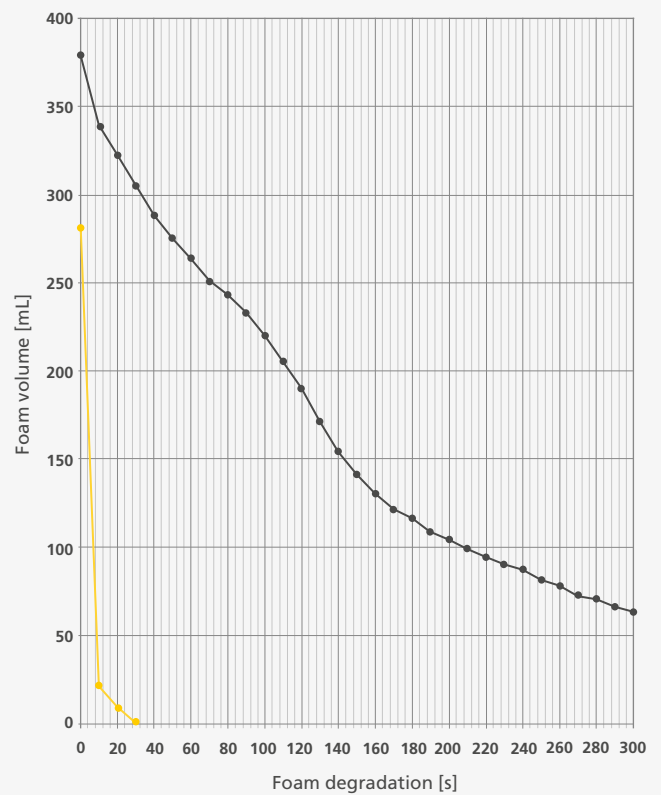
Foaming behaviour

Sita foam build-up 6% in NW 10]



■ rhenus TU 46 P ■ MWF comparison

Sita foam degradation 6% in NW 10]



■ rhenus TU 46 P ■ MWF comparison

Cost benefits

Low consumption (20% more economical on average*)

Little to no need for maintenance additives
Up to 50% longer tool service life*

Low-level of safety precautions thanks to WGK 1 classification

* Demonstrated in comparative tests with market competitors.



- Maintenance of the MWF
- MWF consumption or price
- Use of suspending agents
- Maintenance of machine tools
- Waste and downtime
- Tool
- Storage

Cost factors influenced by metalworking fluid

Environment & occupational safety

Sustainable thanks to the following factors:

- ✓ Conserves resources thanks to long emulsion life and low consumption
- ✓ Water hazard class (WGK) 1 due to mild formula