

The all-rounder

# rhenus TU 43 P

Water-miscible coolant

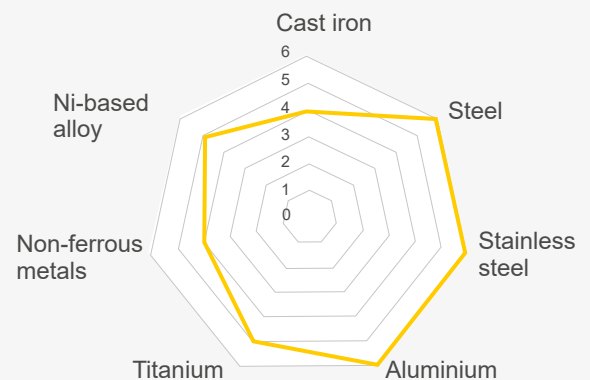


- Tried and tested: Top product for materials used in aircraft manufacturing
- Recognised performance: Many approvals from the aviation industry
- Highly efficient: Very cost-efficient as a result of high performance

## Important properties

- Highly cost-efficient due to low replenishment concentration
- Ensures long tool life with wide range of materials
- High stability, long emulsion life
- Prevents staining of sensitive aluminium alloys
- Good skin compatibility

## Material suitability



6 = ideally suited 0 = less well suited

## Aviation approvals worldwide

**rhenus TU 43 P** can be used for the efficient machining of workpieces in structure and turbine construction as well as landing systems.



### Approvals

- Airbus - AIPS 00-00-010 - List of authorized cutting fluids for drilling and machining operations (published in 2019, valid for almost all programmes)
- Safran Aircraft Engines (Snecma) - PR 6300
- Bombardier - in compliance with BAMS 569-001

### Materials/Alloys

Aluminium, titanium, stainless steel, steel and others including  
EN AW 2024, EN AW 2099, EN AW 5083, EN AW 6061, EN AW 6066, EN AW 6082, EN AW 7022, EN AW 7075, TiAl6V4, Inconel 718, X2NiCoMo1895, X5CrNiCu15-5.

If you have any questions, please do not hesitate to email us at [vertrieb@rhenusweb.de](mailto:vertrieb@rhenusweb.de) or call us on +49 (0)2161 58690

## Areas of application



Grinding



Turning



Drilling



Milling



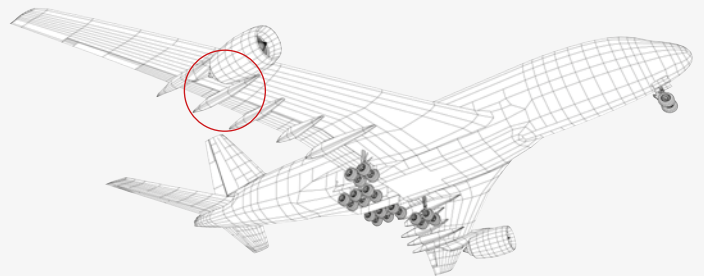
Threading



## Performance

### Aviation industry – landing flap track

Double disc milling cutter (Ø 300 mm)  
Material: TiAl6V4  
Vc: 58 m/min  
Vf: 68 mm/min  
ap: 1.35 mm (each side)  
ae: 100 mm  
Tool life: 145 min  
Coolant concentration: 8-10%



► **Best performance with materials that are difficult to machine**

### Aviation industry – supply company; structural components for Airbus, Premium AEROTEC and Liebherr

Materials: predominantly aluminium such as EN AW 7075, EN AW 6082, as well as titanium and stainless steels  
Machine types: machining centres, turning/milling centres, turning machines, grinding machines  
Coolant concentration: 6-9%  
Replenishment concentration: 1.7%



#### Added value in use:

- No discolouration of aluminium components prone to staining, even with longer machine running times
- Long coolant service life of more than one year
- Can be used cost-efficiently as a result of the low replenishment concentration
- Very good rinsing properties resulting in clean machines and workpieces

## Cost benefits

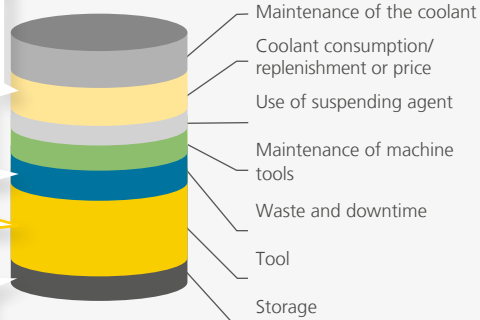
Very low replenishment concentration down to below 2% possible

More productive time due to long emulsion life

Lower coolant consumption  
Clean machines and components as a result of effective rinsing properties and no adhesive residues  
Practical example of carbide reversing plates: 50% longer service life when turning Inconel

Easy handling due to water hazard class 1

**The coolant influences the following operating costs:**



## Environment and occupational safety

- ✓ No SVHC ingredients
- ✓ Good skin compatibility
- ✓ Water hazard class 1 (WGK 1)