

# METALON

... more than greasing

## METALON ® HT Extreme Pressure Grease

- stops wear almost completely
- protects metal surfaces from abrasion
- provides for smoother metal surfaces
- reduces friction and heat development
- possesses high electrical conductivity



### Application and impact

METALON HT (high temperature) greases protect against rust, corrosion, oxidation, water washout and provide excellent mechanical and thermal stability. The application range is between **-40 ° C and +300 ° C**. METALON greases are based on a calcium sulfonate complex and were originally developed for the submarines of the Canadian Navy (saltwater environment). METALON greases provide residual anti-wear protection during threatening cold welding (>1400°C) between two microscopically small metal surfaces and instead of damage of its two involved micro surfaces METALON greases protect against abrasion even when the grease is squeezed out. METALON greases are typically used in industry, engineering, automotive, marine equipment, gears, bearings, stuffing boxes, oven conveyors, military equipment, tractor fifth wheels, farm production and so on.



### Consistency

METALON HT greases reach several NLGI grades and enable **universal use** (METALON HT 1.5 is suitable for NLGI grades 1 and 2). More information see backside.



### How to use

**It is highly recommended to use the HT-EP greases purely.** Mixture with other greases can lead to failed lubrication. For mixed types of greases, we reject each responsibility. Lubrication lines of central lubrication systems are to be through-smear up to the blue grease squeezes out on the lubricating point.

### Packages (Number per box)

10 ml syringe (60), 50 ml syringe (30), 50 g mini-box (30), 330 g box (10), 400 g cartridge DIN 1284 (10), 1 kg box (6), 5 kg pail (1), 20 kg pail (1), Other packages on request.



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### material safety data sheet (msds)

All safety data sheets can be found online on [www.metalon.ch](http://www.metalon.ch) – we will also send you one along with your order.

### REACH registration

The REACH Registration is NOT necessary for any of the METALON ® products. Delivery security within European Community is ensured.

### Languages

The safety data and technical data sheets are available in German, French and English.

### ASTM Specifications

Description	ASTM	results
<b>Colour, Texture</b>		blue, buttery, smooth
<b>Dropping point</b>	D-2265	300 °C / 575 °F
<b>Shear stability</b> Cone penetration, 25 °C / °77 F after 60 / 1'000 / 10'000 strokes after 1'000 strokes, 50% H <sub>2</sub> O	D-217	Typ HT 1.5  285-315/+1%/+2% 285-315
<b>Roll stability</b>	D-1831	+ 3 %
<b>Extreme pressure properties</b> Timken o.k.-load Four-ball wear test 1'800 min <sup>-1</sup> , 435 N7mm <sup>2</sup> LW-Index Weld point	D-2509 D-2266 D-2783	> 340 N 0.32 700+ N 5000+ N
<b>Wheel breaking leakage</b> > 163 °C / 325 °F, 660 min <sup>-1</sup> , 6h	D-1263	0.4 %
<b>Water washout</b> 79 °C	D-1264	< 3.0 %
<b>Rust test</b> Synthetic seawater, 1 = o.k.	D-1743	1, 1, 1
<b>Corrosion resistance</b> Copper corrosion Bearing corrosion	D-1261 D-1743	pass pass
<b>Oxidation loss</b> 100 / 500 / 1'000 h	D-0942	0 / 0.14 / 0.62 bar
<b>Low temperature torque</b> - 40 °C (-100 °F) / 5 min / 10 min	D-1478	8.0 / 3.7 / 3.5
<b>Evaporation loss</b> 70 °C (160 °F) / 22h 100 °C (210 °F) / 22 h	D-972	0.35 % 0.85 %
<b>NLGI-Consistency</b> HT 1.5 EP-grease (standard) HT 0.5 EP-semi flow grease HT 000 EP-flow grease	D-217	NLGI-grades 1 und 2 0 und 00 000

To your attention: Information and data are based on investigations, reports and research results, from which we believe that they are reliable. They are indicated here without warranty and adhesion on our part and are intended for the user to the own investigation, check and evaluation

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