

TECHNICAL DATASHEET

STALOC HT-7 HIGH PERFORMANCE TUNGSTEN LUBRICANT

SQ-495

PRODUCT DESCRIPTION

Lubricant based on Tungsten sulphide with excellent resistance against compression loads and high temperature. Outstanding dry running lubrication for all parts subject to extreme mechanical stress and thermal impact. The enduring and protective film ensures a safe and effective long-term lubrication. Suitable for moving and rotating machine parts, hinges and joints, bearings, slide bars, valves, Bowden cables, bolts, axles, weapon runs, etc.

Excellent resistance against saltwater, spray water, light acids and bases, etc.

The protective lubricating film does not harm plastics or (rubber) sealants.

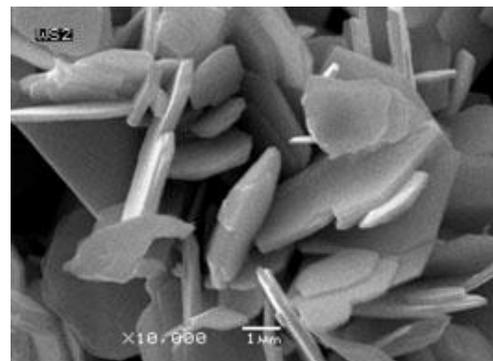
STALOC HT-7 High Performance Tungsten Lubricant permanently protects parts and prevents moving and rotating parts from wear. The robust Tungsten additives provide for an outstanding dry-running lubrication. Its operating temperature range between -270°C and +650°C guarantees that the product withstands the highest thermal and mechanical stress.

INFORMATION ON TUNGSTEN

Pure Tungsten is characterized by an extremely high density, hardness and strength. Among all known chemical elements Tungsten has the second highest melting point at 3,422°C. This is why Tungsten is also commonly used for welding electrodes, lamps or other industrial high-temp applications.

Tungsten is also commonly used as a raw material for special steel alloys in metallurgy. It forms Tungsten carbide, which increases the secondary hardness of tool steels.

In addition Tungsten is used in aviation and space projects, as well as military applications (e.g. as an alloy for high-performance materials used for paddle wheels of Jet engines).



Its natural strength and resistance (especially against temperature, pressure and corrosion) gives Tungsten its special lubrication and protection qualities. The commonly known dry lubrication performance of graphite, MoS₂ or PTFE are easily exceeded by Tungsten.

P [kg]	Graphite		MoS ₂		Tungsten (WS ₂)	
	friction coefficient [μ]	wear rate [ΔE in mm]	friction coefficient [μ]	wear rate [ΔE in mm]	friction coefficient [μ]	wear rate [ΔE in mm]
21	0.0194	0.241	0.0194	0.268		0.197
25	0.0490	0.255	0.0204	0.270		0.250
31	0.0526	0.312	0.0180	0.283	0.0066	0.266
34	0.0601	0.316	0.0240	0.288	0.0240	0.270
38			0.0269	0.301	0.0296	0.282
40			0.0459	0.312	0.0375	0.309

CHARACTERISTICS

- extreme resistance against compression loads
- outstanding dry running lubrication due to high Tungsten concentration
- extensive working temperature range from -270°C to +650°C
- excellent creep capability
- water-repelling and silicone-free
- UV-resistant
- corrosion-resistant



TECHNICAL PROPERTIES

ATTRIBUTE	UNIT	SPECIFICATION
colour		dark grey
basis		synthetic ois / Tungsten
temperature resistance	°C	-270°C to +650°C
application temperature	°C	10°C - 35°C
shelf life at +25°C	years	5

APPLICATION

Recommended application – further information can be found in the material safety data sheet.

Spray lubricant onto the parts from a distance of 15-20 cm. Provide for enough penetrating time. Use the capillary tube on the can to distribute the lubricant in areas that are difficult to access.

SAFETY INFORMATION

Please send your request for the latest version of the material safety data sheet (MSDS).

PACKAGING / VOLUME

500 ml 650 3e à 12 pcs. per box

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