Dr. Tillwich GmbH
Werner Stehr

Wet-Stop 200 E

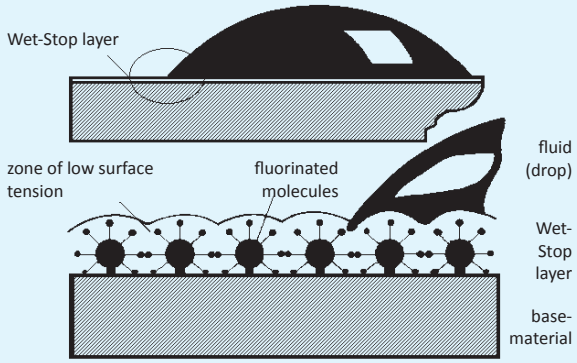
Article No. TE1320

Epilamisation Agent for Metals and Plastics

Product Specifications

Technical Information:

Wet-Stop 200 E consists of a highly volatile solvent and a partially fluorinated polymer in low concentration. After a treatment of the parts with Wet-Stop 200 E and an adjacent drying, the agent polymerizes on the solid material surface on the evaporation of its solvent.
The Wet-Stop layer created has a very low surface tension (approx. 10-14 mN/m). On this polymer layer, which is similar to PTFE, fluids are no more able to wet or spread.



The fluorinated molecules of the high-purity Wet-Stop layer adhere very strong on the surface. The Wet-Stop coating acts as a network whose fluorine „bristles“ repel the fluid.

Film Thickness	approx. 0.015 µm
Agent	partially fluorinated polymer of high purity (solid) with a repelling effect on all important types of oils and greases
Solvent	partially fluorinated ether compound with a tight boiling range; contains no chlorine, no ozone depleting potential, low global warming potential
Thermal Stability (film)	-75 °C to +200 °C, shortly up to +250 °C [-103 °F to +392 °F, shortly up to +482 °F]
Densitiy	1.5 g/cm³ at 20 °C [+68 °F]
Boiling Range	35 °C to 65 °C [+95 °F to + 149 °F]
Inflammability	not inflammable
Coverage	approx. 80 g/m², depending on method of application and type of parts (calculated for plain parts with no scooping surface elements)
Compatibility with Plastics	
compatible	POM, PBT, PA66, PC, PPOX, ASA, ABS, and all known not fluorinated printed circuit board materials
Efficacy	on all materials, except PTFE
Toxicology	physiologically harmless, if used properly; details see safety data sheet

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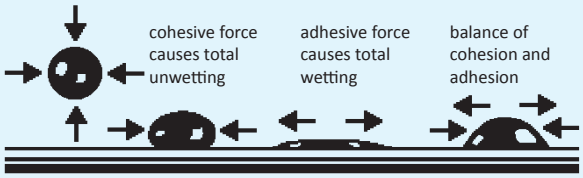
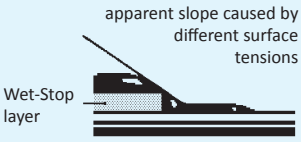


Wet-Stop reduces the surface tension of the solid as far as silicon oil can´t spread any more.

The fluid always creeps to the untreated area.



Test of Efficacy:

Apply drops of the test fluid with an approx. Ø of 1 mm to the treated parts. Over a 4-hour period, the area covered by the drops may not become bigger. The contact angle must be between 5° and 50° at room temperature.

Directions:

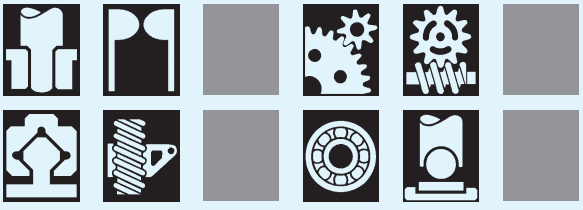
Cleaning	surface contaminants, such as oils, antiseizes and water must be removed before using Wet-Stop.
Immersing	5 to 10 seconds at room temperature
Spraying	caution, use only in well ventilated areas!
Drying	at room temperature; warm air speeds up the process.

Remarks:

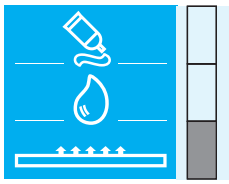
The use of Wet-Stop is recommended for precision and for life lubrication in precision machinery. For treatment of printed circuit boards, electric contacts, potentiometer plates and electronical parts. It prevents the contamination of electric contacts by lubricants in the field of automotive industry.
Epilamisation with Wet-Stop 200 E prevents oil layers with a maximum thickness of 0,5 mm from creeping. In capillary gaps the penetration forces of the fluids are reduced.

Application:

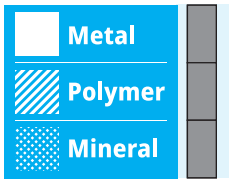
For dented wheels, bottom plates, electric contacts, printed circuit boards, potentiometers, ball bearings. Using the system bearing/shaft both parts, bearing as well as shaft must be treated with Wet-Stop 200 E.



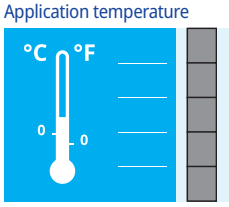
Product



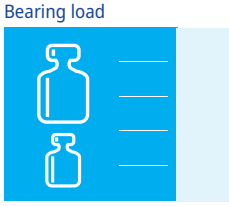
Bearing material



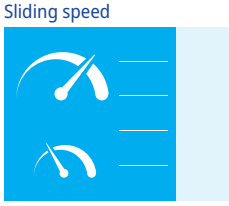
Application temperature



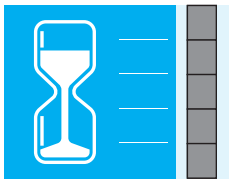
Bearing load



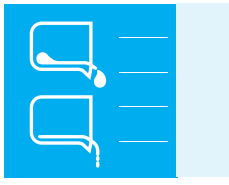
Sliding speed



Durability



Viscosity



Wetting

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