



Stemkor

Temporary Corrosion Preventatives

Description; Description

BP's Stemkor fluid products are dark brown, solvent deposited, water displacing corrosion preventatives which can be applied by dip, brush, spray or swab. The products leave a thin transparent gelled oil film or grease film depending on the grade selected. In general, Stemkor 171 provides long term storage protection, Stemkor 161 medium term and Stemkor 140 short term respectively, to ferrous and non ferrous

components. These products are based on carefully selected solvent systems which results in flash points greater than 55°C. This leads to lower drainage rates and an optimum coverage of the protective film, lower maintenance costs and an improved working environment. BP's Stemkor products are all barium and secondary amine free.

Applications; Applications

Stemkors are best applied by dipping but can alternatively be brush or spray applied. They can be removed with hydrocarbon solvents or suitable alkaline cleaners.

STEMKOR 171 - especially suited for the protection of automotive components, bars, tubes and machinery during storage and transit. The protective film is very effective against acidic and other aggressive atmospheres.

STEMKOR 161 - is particularly suitable for the protection

of highly machined precision parts such as automotive engine components, taps and dies, hand tools, gears, springs and bright bar/wire where heavy thick films are not desired. It exhibits excellent dewatering properties and is an efficient finger print corrosion suppressant.

STEMKOR 140 - is ideally suited for the protection of bright wire, tubes and bars. It is especially recommended for inter-process and transit protection of pressed panels prior to assembly.

Main Benefits; Main Benefits

- High Flash Point - safer to use and less top-up product required
- Effective water displacing properties
- Suitable for a wide range of applications

- Barium and secondary amine free
- Stemkor 161 and 140 - thin protective film reduces difficulties in separating components.

Storage; Storage

All packages should be stored under cover. Where outside storage is unavoidable drums should be laid horizontally to avoid the possible ingress of water and the obliteration

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of drum markings. Products should not be stored above 60°C, exposed to hot sun or freezing conditions.; of drum markings. Products should not be stored above 60°C, exposed to hot sun or freezing conditions.

Health, Safety and Environment; Health, Safety and Environment

Health, safety and environmental information is provided for this product in the Materials Safety Data Sheet. This gives details of potential hazards, precautions and First Aid measures, together with environmental effects and disposal of used products.; Health, safety and environmental information is provided for this product in the Materials Safety Data Sheet. This gives details of potential hazards, precautions and First Aid measures, together with environmental effects and disposal of used products.

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Typical Characteristics; Typical Characteristics

	Test Methods; Test Methods	Units; Units	Grade :; Grade :		
			140 161 171		
Appearance			brown	brown, hazy	brown, hazy
Density at 15°C	ISO 3675, ASTM D1298	kg/m ³	810	810	830
Viscosity KV @ 40°C	ISO 3105, ASTM D445	mm ² /s	3.4	2.7	10.0
100°C	ASTM D445		2.4	1.9	6.1
Flash Point (PMC)	ISO 2719, ASTM D93	°C	61	60	57
Film Type			gelled oil	grease	greasy
Film Thickness		microns	2.0	2.0	5.0
Evaporation time		minutes	45	60	90
Coverage		m ² /litre	100	75	55
Typical Protection Times					
-indoor		months	6	9	24
-outdoor (covered)		months	1	3	12
-outdoor (exposed)			not recommended	6	
Salt Spray Cabinet	ASTM B117	hours	96	96	360
Nil Corrosion					
Kesternich Humidity Cabinet	DIN 50017	cycles	14	25	30
Nil Corrosion					

The above figures are typical of those obtained with normal production tolerance and do not constitute a specification.

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Date Created: 14/03/1994 10:21:30 Last Modified: 04/10/2005