

**MANUFACTURER OF TECHNICAL AEROSOLS AND PRODUCTS FOR INDUSTRY
PROCESSES - MRO - MAINTENANCE
ALTERNATIVE SOLVENTS 100% SAFE**

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iBiotec® NEOLUBE® CERAM 900

**High temperature ceramic paste
ANTI-SEIZE COMPOSITE COMPOUND WITH HIGH SOLID LUBRICANTS
CONTENT**

Technical ceramic technology (Si₃N₄)

Boron nitride nanopowder (Hex.BN)

Tungsten disulphide (WS₂)

White lubricant compound for dynamic lubrication at high temperature

High temperature assembly and disassembly paste, metal free, no electrolytical coupling effect

without metal loading

DESCRIPTION

Facilitates the assembly and disassembly of components and assemblies subject to high temperatures or aggressive environments. Effective for use in thin layers.

Excellent dynamic film strength.

Enables life-long static surface treatment.

Guarantee to contain no metal salts, metalloids, or nitrites.

High-temperature, anti-corrosion lubricant.

Efficient in static applications and when subject to vibratory phenomena.

Not for use on slow-moving bearings or rollers without regular top-up of lubricant.

APPLICATIONS

Plastic moulding, injection, composite forming.

Screwed assemblies, even with destruction of thread.

Steam connections. Cable glands. Mechanical bushes.

Impregnation of sealing braids. O-ring seals.

Smooth bearings on hot bending machines. Superheating valves.

Turbines. Combustion engines. Compressors. Gas generators. Foundry ejectors. Aluminium extrusion (start prior to die coating) Zamak de-moulding.

Vulcanised mould closures. Oven door hinges.

INSTRUCTIONS FOR USE

Apply in thin layers on clean surfaces. De-grease beforehand and if necessary components to treat, with Neutralène® V200 in aerosol form. Spray from 15 to 25 cm depending on the component dimensions.

TYPICAL PHYSICAL-CHEMICAL PROPERTIES

PHYSICAL PROPERTIES OF GREASE			
PROPERTY	STANDARD or METHOD	VALUE	UNITS
Appearance	Visual	Paste	-
Colour	Visual	White	-
Apparent density at 25°C (Pycnometer)	NF T 30,020	1260	kg/m ³
NLGI category	NLGI National Lubricating Grease Institute	2	Category according to penetration
Soap/Gelling agent	-	Inorganic	-
Nature of solid lubricants	-	Si ₃ N ₄ - NB - WS ₂	12%
Penetration at 25°C	NF ISO 2137 / ASTM 2176		
Not worked		265-295	1/10° mm
Worked, 60 strokes		265-295	1/10° mm
Worked, 1000 strokes		265-295	1/10° mm
Worked, 10,000 strokes		275-305	1/10° mm
Worked, 100,000 strokes		275-305	1/10° mm
Drop point	NF ISO 2176 / ASTM D 566	>250	°C
Drop point if higher than 360°C	ASTM D 2265	-	
Impurities	FMTS 791 3005		
> 25µ		0	number/ml
> 75µ		0	number/ml
> 125µ		0	number/ml
PHYSICAL-CHEMICAL PROPERTIES OF BASE OIL			
PROPERTY	STANDARD or METHOD	VALUE	UNITS
Nature of base oil	-	Polymer	-
Kinematic viscosity at 40°C	NF EN ISO 3104	140	k k -q/Æ
Kinematic viscosity at 100°C		100	k k -q/Æ
Acid index Ia	NF ISO 6618	0.36	mg KOH/l
PERFORMANCE CHARACTERISTICS			
CHARACTERISTIC	STANDARD or METHOD	VALUE	UNITS
Oil separation 7 days at 40°C (bleeding)	NF T 60,191	1	% mass
Oil separation 24h at 41kPa (bleeding under pressure)	ASTM D 1742	<2	% mass
Sulphated ash	NF T 60,144	0	% mass
Copper blade corrosion	ASTM D 4048	1a	Measured value
Hoffman oxidation	ASTM D 942	<10	psi
Loss by evaporation 22h at 121°C	ASTM D 972	0	% mass
Loss by Noack evaporation	NF T 60 101 CEC L-40 A-93 ASTM D5800	<0.5	% mass
Elastomer swelling 70 h at 100 °C	ASTM D 4289.83	<0.8	% dimensional change
Static temperature ranges			
In neutral atmospheres	-	-25 +1200	°C
In oxidizing atmospheres	-	-25 +900	°C
Rotation factor	n.d _m	80.000	mm.min ⁻¹

4 balls test	ASTM D 2266 / ISO 20 623	0.55	mm
Impression diameter		5500	daN
Weld load index			
TIMKEN test	ASTM D 2509	40	lbs
EMCOR anti-rust test			
Dynamic	NF T 60 135	0	Measured value
Static	ISO DP 6294/ ASTM D 1743	2	Measured value
Water wash-off resistance at 80°C	ASTM 1264	<1	% mass

ADDITIONAL CHARACTERISTICS

PROPERTY	STANDARD or METHOD	VALUE	UNITS
Tightening torque at 20°C	MIL A 907 E 80	80	Newton metre
Release torque at 450°C	MIL A 907 E 80	80	Newton metre
Release torque at 750°C	MIL A 907 E 80	90/95	Newton metre

* not measured or not measurable

PRESENTATION



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USAGE RESERVE AUX UTILISATEURS PROFESSIONNELS
Consulter la fiche de données de sécurité.

Les renseignements figurant sur ce document sont basés sur l'état actuel de nos connaissances relatives au produit concerné. Ils sont donnés de bonne foi. Les caractéristiques y figurant ne peuvent être en aucun cas considérées comme spécifications de vente. L'attention des utilisateurs est en outre attirée sur les risques éventuellement encourus lorsqu'un produit est utilisé à d'autres usages que ceux pour

