

RULE OF THUMB - LUBRICANTS, SEALANTS & O-RINGS

By Neal Wikert

CAUTION: The use of proper lubricants, sealants and o'rings are critical to successful operation of equipment. Consult RMS prior to actual application.

Lubricants	O-Ring Temperature limits			
Bolt Lubricants for High Temperature machines:	Description	Continuous high temp	Hardness Range	National Compound
1. FEL-PRO Heavy Duty Anti Seize-used to be C-102	Nitrile	257 deg. F.	(Shore A) 40-90	Prefix B,C,D
2. Milk of Magnesia is a good choice for high temperature fasteners.	(BUNA-N) Ethylene- Propylene			
3. Anti Seize-N-5000 Nuclear Grade-Nickel based		302 deg. F.	50-90	E
Sealants	Neoprene	284 deg. F.	40-80	N
Permatex "Ultra Blue" - Oil resistant RTV. Not high temperature.	Fluorocarbon (Viton)	437 deg. F.	70-90	V
Permatex Aviation Form-A-Gasket Sealant Liquid 3H-Gasket sealant, non-hardening, used on metal-to-metal joints, mainly bearing casing joints	Silicone	482 deg. F.	40-80	S
	Fluoro- Silicone	347 deg. F.	60-90	F
Dow Corning 3120RTV, Red-Joint sealant for centrifugal compressors. Check temperature capability prior to use on equipment.	Styrene- Butadiene	212 deg. F.	40-80	Gs
GE RTV60-High temp RTV. Uses a catalyst-Used on Axial Compressor horizontal splits. Can be used on LP steam turbine joints. Use of a primer is recommended for improved adhesion.	Polyurethane	212 deg. F.	60-90	U
	Butyl	212 deg. F.	50-70	J
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Turbo R-Joint sealant for steam Turbines horizontal joint.

Triple Boiled Linseed Oil-successfully used on steam turbine joints.

Tite-Seal-Joint sealant for steam turbines.

"Silver Seal-Some limited experience/success on high temperature horizontal joints.

Temp-Tie-Steam turbine joint sealant. Comes in string form (sealed in can).

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