

TURBOMACHINERY RULES OF THUMB - SEALANTS

By Neal Wikert

Sealants

Permatex "Ultra Blue" Oil resistant RTV. Not high temperature.

Permatex Aviation Form-A-Gasket Sealant Liquid 3H – gasket sealant, non-hardening, on metal-to-metal joints

Dow Corning 3120RTV. – Red. Joint sealant for centrifugal compressors. Need to check temperature capability.

GE RTV60 – uses a catalyst. High temp RTV. Axial Compressor horizontal splits. Can be used on LP steam turbine joints. Highly recommended. Can be used with GE SS4004 Primer for improved adhesion.

Turbo R - Joint sealant for steam turbines horizontal joint.

Turbo 50 - Joint sealant for steam turbines horizontal joint.

Tite-Seal – Joint sealant for steam turbines.

"Silver Seal" – Some (limited experience) success on horizontal joints. Good for 950 deg. F/750 psi.

Cure time 2 hrs at 400 deg. F. 4-6 hrs @ 225 deg. F.

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