

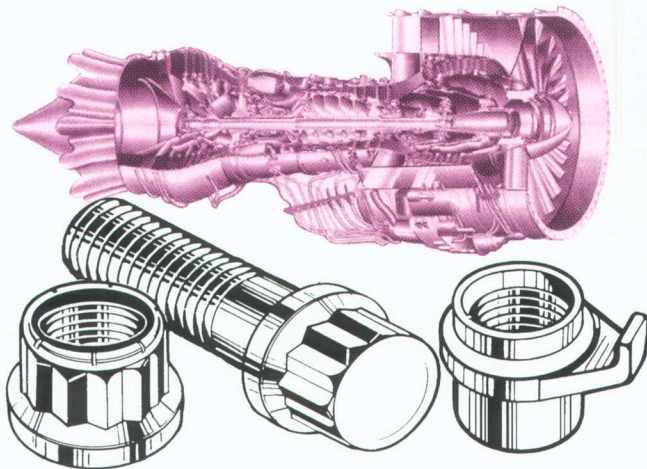


# TIOLUBE™ 614-T9B

## 1400° F SOLID FILM LUBRICANT

**TIOLUBE 614-T9B** is an inorganic bonded dry film lubricant utilizing a specially formulated composition of oxides. Its primary function is to prevent seizing of threaded fasteners. Its high temperature capabilities offer a unique combination of performance benefits not available with other solid film lubricants.

**TIOLUBE 614-T9B** is designed for use in jet engine applications and is used on A-286, Inconel and Waspaloy fasteners to replace silver at 1400° F. Because TIOLUBE 614-T9B contains an inorganic binder and specially formulated particulate solid film lubricant pigments, it does not deteriorate at 1400° F for long periods of time and it aids in the removal of threaded fasteners.



**614-T9B meets Specifications:** PWA 36245  
GE - A50TF303  
AS 1701, Class IV, V\*, VI\*

\* Note: 614-T9B meets the requirements of AS 1701 Class V & VI but does not contain Molydisulfide.

### PHYSICAL PROPERTIES

Service Temperature: 1400°F  
Binder: Inorganic (acid)  
Lubricative Base: Inorganic oxides  
Application: .0003 to .0007 inch thick  
Cure Temperature: 950°  
Color: Flat gray

### 1400°F BOLT AND NUT CYCLE TEST

1/4 Waspaloy Bolt & Crimp Nut (plating allowance)

614-T9B on Nut • 7808 oil on Bolt as an assembly and disassembly aid.

CYCLE	1	2	3	4	5	6
	<i>in-lbs</i>	<i>in-lbs</i>	<i>in-lbs</i>	<i>in-lbs</i>	<i>in-lbs</i>	<i>in-lbs</i>
Run on torque	31	5	3.7	2.4	2.1	1.4
Seating torque	41	15	14	13	13	12
Clamp up torque	113	150	111	132	155	135
1400°F	6.2 hrs	6.2 hrs	6.5 hrs	6.2 hrs	6.3 hrs	6.5 hrs
Unseating torque	185	240	245	280	295*	280*
Breakaway torque	12	6.3	2.8	2.5	6.9	5.6*
Run off torque	5-16	4-8	2-7	2-5	2-7	5-35*
Thread damage	none	none	none	none	none	exposed threads

\* 7808 oil not used

**TIODIZE®**

5858 Engineer Drive • Huntington Beach, CA 92649 • (714) 898-4377 • Fax: (714) 891-7467  
e-mail: [tiodize@tiodize.com](mailto:tiodize@tiodize.com) • web: <http://www.tiodize.com>