

# HT INCONEL X-750



# 2X USABLE RECOVERY IN CYCLING APPLICATIONS

*For the most demanding cyclic conditions, THE CHOICE IS  
Flexitallic's THERMICULITE 835 SPIRAL WOUND GASKET  
with Heat Treated Inconel X-750 winding.*



*Flexitallic*

Differential thermal expansion and contraction of components in a bolted joint, due to the effects of cyclic conditions, requires that extra resiliency be built into the joint or the gasket to compensate for fluctuating load conditions.

Normal gasket materials do not provide sufficient resiliency, and therefore cannot compensate for the adverse effects of cyclic conditions. Special Heat Treated Inconel X-750 gasket materials have been developed by Flexitallic to ensure that joint integrity is maintained during thermal cycles.

In OEM and End User testing comparing the performance of standard 316L SS windings vs. Heat Treated Inconel X-750 windings (precipitation hardened), HT Inconel X-750 winding material significantly increased the yield strength resulting in increased springback before leakage, or usable recovery.

# INCREASED SAFETY. PROVEN RESULTS. PROVEN COST SAVINGS.

- 1300°F service
- Flexible graphite gaskets lasted only 3 to 6 months
- Hydrocarbon leaks resulted in flash fires and unplanned shutdowns
- Style CGI spirals, Heat Treated Inconel X-750 with Thermiculite 835 filler extended service beyond 1 and 1/2 years until scheduled shutdown

**NET RESULT WAS INCREASED PRODUCTION AND ELIMINATION OF SAFETY RELATED ISSUES, RESULTING IN SAVINGS “IN THE MILLIONS”**

Heat Treated (precipitation hardened) Inconel X-750 winding material significantly increases the yield strength resulting in increased springback before leakage, or usable recovery.

*Hardened Windings  
Improve Gasket Performance  
in Cyclic Conditions*

**FLEXITALLIC'S THERMICULITE 835  
HEAT TREATED INCONEL X-750  
SPIRAL WOUND GASKET**

Full Scale Test Results (Averaged)  
on Reactor Coolant Pump Gaskets

**GASKET DIMENSIONS 40 5/8" X 42" X .175"**

Winding Material	316L SS	Heat Treated Inconel X-750
Initial Thickness	0.178"	0.179"
Compressed Thickness	0.122"	0.121"
Total Springback	0.011"	0.013"
Springback to Leakage @ 2500 psi test pressure	<b>0.0038"</b>	<b>0.0078"</b>



**SPECIFY FLEXITALLIC'S PROPRIETARY HEAT TREATED\* INCONEL X-750 WINDINGS IN APPLICATIONS WHERE THERE ARE CONCERNS ABOUT:**

- Cyclic Conditions
- Differential Thermal Expansion and Contraction
- Radial Shear
- Bolt Relaxation
- Hot Torquing

*\* HT or Heat Treated must be specified otherwise only Inconel X-750 will be provided.*





# FLEXSEAL INDUSTRIAL

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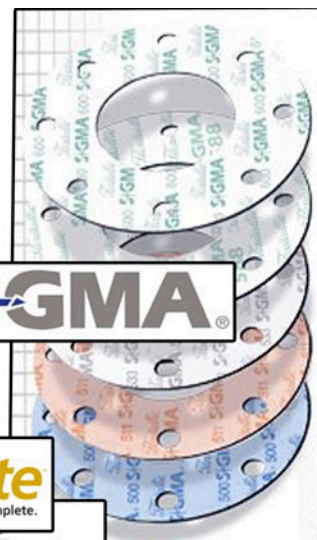
Flexseal Industrial is a full line gasket and o-ring distributor. We provide a broad range of products including but not limited to Flexitallic spiral wound gaskets, die cut gaskets, sheet material, Flexpro (kammprofile) gaskets, RTJ's and o-ring seals.

We offer superior customer service and are committed to meeting the needs of all your industrial sealing applications.

### SPIRAL WOUND GASKETS



**SIGMA**



**Thermiculite**  
innovative. versatile. complete.



**Flexpro™**



**-RINGS**