

# **INERTEX<sup>®</sup> "LTC" and "LTC-NR"** Low Torque Gaskets

AN INDUSTRY-DESIGNED ANSWER  
To an Every Day Industry Problem

Every Day Real Industry Problems!	The Industry and Inertech Solution
FRP piping mfgs'. recommended maximum torque is too low for a leak-free joint.	Design a gasket that seals at torques below piping mfgs. recommended levels.
Gasket materials are too hard and/or do not seal at recommended torque levels. When leakage is detected, mechanics frequently torque bolts to stop leakage resulting in broken or cracked flanges.	Use a soft compressible material that seals at low loads. Provide a leak free gasket in the initial installation that maintains its leak free performance for the life of the joint.
Field personnel often use the wrong gasket material for the media to be sealed.	Provide a gasket with total chemical compatibility.
Downtime from replacing flanges is very costly.	Provide a gasket that eliminates broken flanges and resulting downtime.
Lost product as a result of flange leakage or breakage is extremely costly.	Provide a long life, leak-free gasket designed to seal within piping manufacturers' recommendations.
When higher temperatures are present, mechanics frequently have to re-torque gaskets to keep them from leaking.	Provide a material that has little to no creep relaxation or cold flow.

## INERTEX<sup>®</sup> "LTC" and "LTC-NR" Low Torque Gaskets

Co-developed by engineers at Virginia Sealing Products, Inc. and Inertech, Inc., the **INERTEX<sup>®</sup> "LTC" and "LTC-NR"** Low Torque Gasket designs eliminate the problems most users of FRP, Plastic, or similar fragile piping materials experience every day. **No other gasket design does all this! These designs are the only pure PTFE (Teflon<sup>®</sup>) gaskets designed for FRP flanges!** Review the table below and decide for yourself.

TORQUE COMPARISON TABLE OF COMMON GASKETING MATERIALS FOR FRP PIPING

Nominal Pipe Size	A.O. SMITH CO. Fiberglass Piping Maximum Recommended Torque	Garlock Stress Saver (Published Values)	Garlock Gylon 3545 (Requires 2400 psi stress)	Gore-Tex GR Gasket Sheet (Requires 2800 psi stress)	INERTEX <sup>®</sup> SQ-S Gasket Sheet (To reach approximately 2800 psi stress)	INERTEX <sup>®</sup> "LT" Low Torque Gasket (To produce approximately 3,000 psi stress)
1" X 150#	25 ft. lbs	14 ft. lbs	45 ft. lbs	51 ft. lbs	54 ft. lbs	13 ft. lbs
1 1/2" X 150#	25 ft. lbs	19 ft. lbs	59 ft. lbs	68 ft. lbs	73 ft. lbs	14 ft. lbs
2" X 150#	30 ft. lbs	33 ft. lbs	105 ft. lbs	122 ft. lbs	129 ft. lbs	19 ft. lbs
3" X 150#	30 ft. lbs	49 ft. lbs	155 ft. lbs	181 ft. lbs	192 ft. lbs	25 ft. lbs
4" X 150#	30 ft. lbs	33 ft. lbs	105 ft. lbs	122 ft. lbs	129 ft. lbs	19 ft. lbs
6" X 150#	30 ft. lbs	46 ft. lbs	159 ft. lbs	185 ft. lbs	196 ft. lbs	24 ft. lbs
8" X 150#	40 ft. lbs	66 ft. lbs	240 ft. lbs	280 ft. lbs	281 ft. lbs	36 ft. lbs
10" X 150#	40 ft. lbs	64 ft. lbs	222 ft. lbs	259 ft. lbs	276 ft. lbs	35 ft. lbs
12" X 150#	40 ft. lbs	93 ft. lbs	323 ft. lbs	376 ft. lbs	400 ft. lbs	41 ft. lbs
14" X 150#	100 ft. lbs	N/A	456 ft. lbs	531 ft. lbs	564 ft. lbs	85 ft. lbs

Two Designs Cover MOST Possibilities  
(SPECIAL DESIGNS AVAILABLE)  
U.S. AND OTHER PATENTS PENDING



**The INERTEX<sup>®</sup> "LTC" Design**  
(STANDARD)

Handles nearly 90% of all FRP, Plastic, and other Lightweight Flanges. Used primarily in Pulp and Paper and Chemical Plants.

**The INERTEX<sup>®</sup> "LTC-NR" Design**  
(NON ROTATIONAL)

Prevents Flange Rotation! For extremely light, fragile, or sensitive piping materials. Also excellent for Food, Pharmaceutical, or Semi-conductor applications

