

TEADIT[®] ETP Copper CASE HISTORY

INDUSTRIAL SEGMENT

Metal Manufacturing

APPLICATION

Caustic and Acid Lines

Equipment

Pump



SCENARIO

A metal manufacturer was looking for a replacement for asbestos compression packing. They were experiencing significant leakage, particularly on their acid lines in the Electrolytic Tough Pitch (ETP) Copper process, which were exposed to extremely harsh mediums like HF, Nitric, and Sulphuric acids. The failures were resulting in excessive shaft and bearing wear/erosion.

SOLUTION

Teadit technical personnel recommend the use of Style 2007 expanded PTFE yarn with graphite and silicone oil lubricant. The pure expanded PTFE allows for the highest level of chemical resistance available while also offering excellent compressibility, low friction, and heat dissipation characteristics. They also provided controlled installation guidelines.

CUSTOMER GAINS

Prior to the improvements, the customer was required to change the packing every 15 days. After addressing the shaft and bearing damage and properly installing the Teadit 2007 packing, their leakage and wear issues were completely eliminated, resulting in significant savings related to maintenance down-time, loss of production, and improved safety and reliability.