

TEADIT[®] 24SH – SEA WATER PUMPS

CASE HISTORY

APPLICATION

Sea Water Feed for Cooling Systems

Low Temperature and Low Pressure

SCENARIO

An industrial facility was using sea water for their cooling system and wanted to change from graphite gasketing material due to potential galvanic corrosion. With relatively low surface pressure to consider, the gasket needed would have to withstand the pump pressure of 435 psi (30 bar) without leaking. This customer contacted Teadit's engineering department for a sealing material recommendation for this application.



SOLUTION



An analysis of the loading of the flange was completed and the proper gasket and bolt stresses were determined for a reliable seal. This resulted in a gasket recommendation of Teadit's 1/8" thick expanded PTFE style 24SH and flange assembly procedures including torque values and thread lubricant recommendation. The facility was unfamiliar with ePTFE material, and they wanted to perform a test to confirm that the soft material would not

become over-compressed and damaged. Teadit was happy to support the customer with a trail gasket for sample compression testing, assembly training, and oversaw the final installation.

CUSTOMER GAINS

The testing was a success, with the Teadit 24SH ePTFE gasket being the solution they needed. The gaskets for all of their pumps were converted to 24SH gaskets supplied through a local Teadit fabricating distributor. The pumps have been operating successfully for several years and the gaskets have now been specified by the pump company as their new OEM pump part.