Challenge

Goal
A pulp mill experienced severe problems with many digester area applications:
- The combination of high pressure and high temperature forms a tremendous sealing challenge
- The plant tried to solve the problem with various types of packing but most of them consolidated quickly and failed

Solution

Product
A combined Chesterton packing solution of Chesterton 1830 SSP and Chesterton 477-1T.
- Chesterton 1830 SSP is a graphite and PTFE packing made for use in pumps, agitators, mixers and other rotating equipment.
- Chesterton 477-1T is used as end rings and designed to be used in high pressure feeders, pre-steaming vessels, and applications that are moving abrasive slurries.

Results
Increased service life of digester by reducing packing consolidation with these higher density packings that maintain sealing with minimal leakage.