

Bio

Edmee Files

Edmee Files has over thirty five years experience as a chemist with twenty five plus years in the oilfield industry. Work history includes experience in the following industries: tire manufacturing, sealants & adhesives, biomedical, polymer (elastomers) and oilfield. Prior responsibilities have included compounding (formulations), research & development, technical sales support, operations management, R&D Director, Vice-President of Research and Development. At present I am working as an Oilfield Materials Consultant. Member of various professional organizations, i.e., AIChE, ACS, ASM, SPE, and ERG.

Abstract

Lessons Learned from Failures

An examination of various sealing failures and the lessons that can be learned from them. Material specifications are important but not necessarily all the primary considerations; choice of material is typically based on the product's function, environment, and service life. The design engineer and the materials scientist must work together in the product design. However, there are also other parameters which affect the product's performance directly and indirectly, i.e., installations, field operations, operator training, etc. Multitude of case studies will be reviewed comprising oilfield seal applications and some assessments from BP Macondo well blowout.