
Thread compounds for casing, tubing and line pipe

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Abstract Today's industrial equipment request lubricants that respond to extreme conditions needs. In petroleum industry, for different types of threaded connections, special lubricants with good adherence to the metallic surfaces are required.

These lubricants must ensure adequate lubricating qualities to prevent galling during make up and break out, to permit the formation of a metal to metal sealing lubricating film, to allow effective application to the connection contact surfaces in given service conditions and environment, to provide corrosion protection and must be in accordance with the local environmental legislation.

The paper present a review of the performance requirements for thread compounds, the research conducted to establish the optimum composition of a tubing / casing thread lubricant that fulfill the constraints, the applied testing method and the final industrial products.

Keywords: additive, grease, antiwear
