

NORSOK M710

行业

石油和天然气行业需要优质的高强度产品，以确保操作安全并减少高压应用中的维护。有了我们的 fluteck™，您可以拥有安全的工作条件、更长久的工作时间，如果组装得当，可以完全减少高污染和腐蚀性液体的泄漏；这也是对环境的保护。

认证详情

NORSOK M710 是挪威石油行业制定的国际公认标准，其规定了非金属密封材料和制造商的要求。NORSOK M710 标准规定了永久海底使用的关键弹性体密封、阀座和备用材料的要求，包括完井、控制系统和阀门。

该标准也适用于关键气体系统中的上部结构阀门，并确保足够的安全性。所有样品均按照 NORSOK M710 进行测试，以测量老化过程中机械和物理性能的变化。

试验方法：样品在高温高压下暴露于酸性流体（含 H₂S）中，每个温度下至少需要暴露三次，然后应用阿伦尼乌斯 (Arrhenius) 模型，从而预测使用寿命。

试验

暴露条件		试验流体	
暴露温度 (° C)	采样间隔 (天)	体积 (%)	成分
200	7, 14, 28, 49	30	2% H ₂ S, 3% CO ₂ , 95% CH ₄
210	6, 12, 21, 42	10	蒸馏水
220	5, 10, 20, 35	60	70% 庚烷, 20% 环己烷, 10% 甲苯

获得认证的材料

- fluteck™ P 1500
- fluteck™ P 1550
- fluteck™ P 7510 CA
- fluteck™ K 300

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NORSOK M710

Industry

The Oil & Gas sector requires products of quality and high strength, to ensure operational safety and reduction in maintenance in high pressure applications.

With our fluteck™ you can count on safe working conditions, a longer duration in time and if properly assembled leads to total reduction of leakage of highly polluting and corrosive liquids; this also translates into environmental protection.

Certification Details

NORSOK M710 is an internationally recognized standard - developed by the Norwegian Petroleum Industry - that sets out the requirements of nonmetallic sealing materials and manufacturers.

The NORSOK M710 standard defines the requirements for critical elastomer sealing, seats and back up materials for permanent subsea use, including well completion, control systems and valves.

The standard also applies to topside valves in critical gas systems and ensures adequate safety.

All samples are tested in accordance with NORSOK M710 to measure changes in mechanical and physical performance during ageing.

Test method: samples are exposed to a sour fluid (H₂S-containing) at high temperature and pressure, at least three exposure times at each temperature are necessary for the application of the Arrhenius model, and thus to predict service life.

Tests

EXPOSURE CONDITIONS		TEST FLUID	
EXPOSURE TEMPERATURE (°C)	SAMPLING INTERVALS (DAYS)	VOLUME (%)	COMPOSITION
200	7, 14, 28, 49	30	2% H ₂ S, 3% CO ₂ , 95% CH ₄
210	6, 12, 21, 42	10	Distilled water
220	5, 10, 20, 35	60	70% heptane, 20% cyclohexane, 10% toluene

Certified Materials

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