

## VESTAKEEP® PEEK 5000 G passes Norsok M-710 test

Evonik Industries, for decades a reliable partner to the oil and gas industry, obtained Norsok M-710 qualification for its newest generation of polyether ether ketone VESTAKEEP® PEEK 5000 G. Evonik contracted the established institute Element MERL to conduct the Norsok M-710 Standard aging test in sour (H<sub>2</sub>S) conditions at 1,450 psi (10 MPa) and test temperatures of 200 °C (392°F), 210 °C (410°F) and 220 °C (428°F) for up to 60 days (Norsok M-710 revision 2).

The successful test performance proves the optimal suitability of VESTAKEEP® PEEK 5000 G for the highly demanding conditions of the oil and gas industry.

The test result summary provides the operator with the indication of a durable service temperature of 200 °C (392°F): No measurable chemical deterioration for VESTAKEEP® 5000 G appeared during that period of time, indicating that there is no degradation effect on material performance during the expected operating time.

Furthermore, customers in the oil and gas industry benefit from additional performance advantages of VESTAKEEP® 5000 G like:

- higher wear resistance
- fatigue resistance 2 to 4 times higher (depending on load)
- 15% higher pressure creep resistance than alternative PEEK materials

Currently Norsok-M 710 rev 2 is the valid standard used in the oil and gas industry.

In order to follow the needs in the oil and gas industry and to support our customers, Evonik is presently testing VESTAKEEP® L4000 G with the Norsok M-710 test under rev 3, which subjects the material to much harsher conditions.

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**Company information**

Evonik, the creative industrial group from Germany, is one of the world leaders in specialty chemicals. Profitable growth and a sustained increase in the value of the company form the heart of Evonik’s corporate strategy. Its activities focus on the key megatrends health, nutrition, resource efficiency and globalization. Evonik benefits specifically from its innovative prowess and integrated technology platforms.

Evonik is active in over 100 countries around the world. In fiscal 2012 more than 33,000 employees generated sales of around €13.4 billion and an operating profit (adjusted EBITDA) of about €2.4 billion (excluding Real Estate in both cases).

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