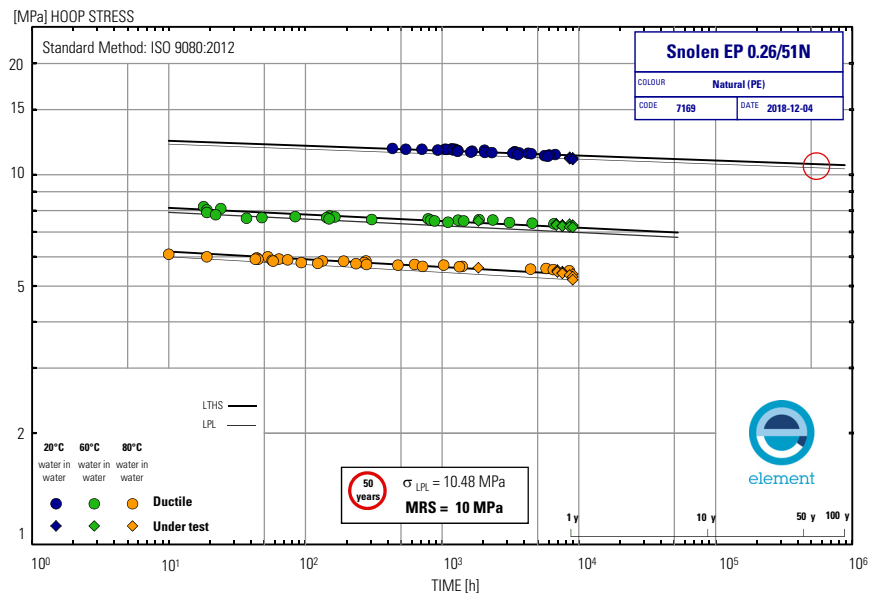


CLIENT: LLC «GAZPROM NEFTEKHIM SALAVAT»

REGRESSION ANALYSIS ACCORDING TO ISO 9080 OF THE NATURAL PE PIPE GRADE Snolen EP 0.26/51N



INTRODUCTION

Element offers accredited testing and evaluation according to ISO 9080, i.e. hydrostatic pressure testing followed by evaluation of the long-term hydrostatic strength and MRS-classification according to ISO 12162.

TASK

The aim was to evaluate the pipe compound according to ISO 9080:2012, in order to obtain a MRS-classification according to ISO 12162:2009 of the natural PE pipe grade Snolen EP 0.26/51N from LLC «GAZPROM NEFTEKHIM SALAVAT».

RESULTS OBTAINED

The evaluation was performed in accordance with ISO 9080:2012. More information can be found in Element Report P-18/175-v1.

EXTRAPOLATED STRENGTH VALUES

T [°C]	Time [Yrs]	σ_{LPL} [MPa]	σ_{LTHS} [MPa]
20	50.0	10.48	10.72
20	100	10.38	10.62
60	6.04	6.77	6.98
80	1.01	5.20	5.38

CLASSIFICATION

MRS = 10 MPa

This only covers the ISO 9080-evaluation, MRS classification and material designation. Any additional requirements for PE 100 pipe compounds are given in the relevant product standards.

