## **Characteristics at elevated temperatures**





	Temperature				
Property class	<b>+20</b> ℃	+100℃	<b>+200</b> ℃	<b>+250</b> ℃	<b>+300</b> ℃
	Lower yield stress, R <sub>eL</sub> or stress at 0,2% non- proportional elongation R <sub>p0,2</sub> (N/mm <sup>2</sup> )				
5.6	300	270	230	215	195
8.8	640	590	540	510	480
10.9	940	875	790	745	705
<u>10.9</u>	940				
12.9	1100	1020	925	875	825

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Continuous operating at elevated service temperature may result in significant stress relaxation. Typically 100 h service at 300°C will result in a permanent reduction in excess of 25% of the initial clamping load in the bolt due to decrease in yield stress.