# AMNIFLEX

## **Temperature De-rating Factors Corrugated SS Hose**

#### **Temperature**

Temperature affects the physical properties of all materials, generally the higher the temperature the weaker the material becomes. The chart below shows the temperature de-rating factors detailed within ISO 10380 – Table A.2.

1,00 0,95 0,90 0,85 0,80 0,75 0,70 0,65 0,60 0,55 0,60 0,55 0,50 0,45 0,40 0,35 0,30 0,20 0,15 0,10 0,05 0,00			50			200	250	200	250	100	450	500	550	600	650
201 / ШЕРУ	-20	20	50	100	150	200	250	300	350	400	450	500	550	600	650
<u>321 / UFBX</u>	1	1	0,93	0,83	0,78	0,74	0,7	0,66	0,64	0,62	0,6	0,59	0,58	A*	A*
<u>316 / UFBX</u>	1	1	0,91	0,78	0,70	0,65	0,61	0,57	0,55	0,53	0,52	0,51	0,50	A*	Α*
<u>316 / AFBX</u>	1	1	0,92	0,83	0,75	0,69	0,65	0,61	0,58	0,56	0,54	0,53	0,52	-	-

### Example

Hose: UFBX-1 316/304Diameter: 2"Max w.p.: 30 bar (See datasheet UFBX 316)Working temperature: 150° C

Go to  $150^{\circ}$  C in horizontal line, make a vertical line that crosses the blue line and go horizontal to the left. This (0,70) is your derating factor.

#### **Conclusion**

UFBX-1-2" - 150° C has a wp of 0,70 x 30 bar = 21 bar. \*A: Refer to manufacturer

All information in this document is without any obligation, specifications subject to change without any notice.

Temperature (Celcius)

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