Lifting Chains XL400 and XL200

TWN 0072



Lifting Chains XL200

Grade 100 lifting chains XL200 are made from CrNiMo alloyed steel and are used to assemble chain slings and lashing chains. The max. application temperature is 205°C.
The testing requirements for these high-quality lifting chains are based on the DIN EN 818 and ASTM 973.

SAFETY 4 : 1

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Trade Size	Article-No.	Working Load Limit [t]	Nominal Size d_n [mm]	Pitch p_n [mm]	Inside Width w_3 [mm] min.	Outside Width w_2 [mm] max.	Weight app. [kgs/m]
6-10	F01616	1,40	6	18	8,40	22,20	0,80
7-10	F01621	1,95	7	21	9,53	25,90	1,10
8-10	F01617	2,60	8	24	11,30	29,60	1,50
10-10	F01618	4,00	10	30	13,40	37,00	2,30
13-10	F01619	6,80	13	39	18,00	48,10	3,90
16-10	F01620	10,30	16	48	21,40	59,20	5,80
18-10	F01642	12,50	18	54	24,10	66,60	7,40

Comparison between Lifting Chains XL400 and XL200

Properties \ Chain Type	XL400	XL200
Standard	PAS 1061 (Manufacturers specification)	ASTM 973
Material	High alloy steel	Alloy steel
Temperature Application Range	-30 °C up to 380 °C; reduction starting at 200 °C	-40 °C up to 205 °C
Working Load Limit (WLL)	25 % higher than Grade 80	25 % higher than Grade 80
Manufacturers Proof Force (MPF)	min. 2,5 x WLL	min. 2 x WLL
Breaking Force (BF)	min. 4 x WLL	min. 4 x WLL
Elongation at break	min. 20 %	min. 20 %
Charpy Notch Value	min. 42 J at -20 °C	min. 36 J at -30 °C, min. 27 J at -40°C
Deflection	min. 0,8 x d	min. 0,8 x d
Fatigue	(1,5 x WLL) min. 20.000 LW	No requirement
Material properties (stress corrosion)	According to standard	No requirement
Finish	Galvanizing not permitted	Galvanizing not permitted
Colour (solvent-free)	Ultramarine blue (RAL 5002)	Grey (RAL 7011)
Marking	XL400; (H)-10, Germany, ID-Code	XL200; THI, Germany, ID-Code
Certification	DGUV	THIELE
Market compliance	MRL / EAC	ASME, MD / EAC