Temperature Application Range of Grade 80 Lifting Chains acc. to the DIN EN 818-2

Temperature Application Range	Working Load Limit
-40°C to 200°C	100 %
over 200°C to 300°C	90 %
over 300°C to 400°C	75 %

If Grade 80 lifting chains are used at temperatures exceeding 200°C, then the working load limit has to be reduced. The manufacturer has to be consulted if lifting chains are used outside of the allowed temperature application range.

Table 4

Load Factors at Asymmetry

Number of strands	1	2		3		4	
Inclination Angle β	-	0° - 45°	46° - 60°	0° - 45°	46° - 60°	0° - 45°	46° - 60°
Load Factor	1	1,4	1	2,1	1,5	2,1	1,5

Table 5

Lifting Chains

TWN 0805

The grade 80 lifting chains TWN 0805 are made from CrNiMo alloy steel and are used to assemble chain slings and lashing chains. The max. application temperature is 400°C. The manufacturing and testing requirements of these high-quality round steel chains are based on the DIN EN 818-2 and on the German Statutory Accident Insurance test principle GS-HM 37.

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]
	Self-Coloured	RAL 9005	Corrothiel	Electro-galvanized						
6-8	F01452	F01453	F01454	F01448	1,12	6	18	7,80	22,20	0,82
7-8	F01458	F01459	F01457	F014601	1,50	7	21	9,50	25,90	1,10
8-8	F01464	F01465	F01429	F01433	2,00	8	24	10,90	29,60	1,46
10-8	F01469	F01470	F01450	F01445	3,15	10	30	13,00	37,00	2,26
13-8	F01474	F01475	F01476	F014781	5,30	13	39	17,40	48,10	3,76
16-8	F01479	F01480	F01487	F014821	8,00	16	48	20,80	59,20	5,70
18-8	F01484	F01485	F04580	F01484G	10,00	18	54	23,40	66,60	7,10
20-8	F01494	F01495	F04606	F014944	12,50	20	60	26,00	74,00	9,00
22-8	F01499	F01500	F04629	F015111	15,00	22	66	28,60	81,40	10,90
26-8	F01514	F01515	F04695	*	21,20	26	78	33,80	96,20	15,20
28-8	F01519	F01520	F01521	–	25,00	28	84	36,40	104,00	17,60
32-8	F01524	F01525	F01526	F01527	31,50	32	96	41,60	118,00	23,00
36-8	F01529	F01530	F04814	–	40,00	36	108	46,80	133,00	29,00
40-8	F01534	F01535	F04838	–	50,00	40	120	52,00	148,00	36,00
45-8	F01539	F01540	F04889	–	63,00	45	135	58,50	167,00	45,50
50-8	F01545	F01546	F04900	–	80,00	50	150	65,00	185,00	56,00
56-8	F01555	F01556	F04908	–	100,00	56	168	72,80	207,00	72,50
63-8	–	F01566	–	–	125,00	63	190	81,90	233,00	89,00
71-8	–	F01598	–	–	160,00	71	210	92,30	263,00	113,00



** On request*