## DATASHEET

## D12+ DM20

Marlow D12+ DM20 (MaxTech) is a premium and versatile "all round" rope utilising Dyneema® DM20. This superior product offers industry-leading strength, stiffness, durability and longevity in permanent load situations as a substitute for steel wire.

Manufactured using Dyneema® DM20 fibre, D12+ DM20 (MaxTech) exhibits ultra-low creep for deep water and permanent mooring applications where constant high load causes issues for traditional HMPE fibres.

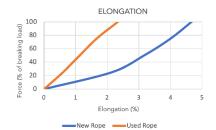
D12+ DM20 (MaxTech) has been designed to offer significantly improved strength, handling and service life and subsequently can provide a more cost effective solution compared to more traditional products.



Nominal Diameter		Mass (Weight)		Minimum Linear Strength ISO 2307			Minimum Spliced Strength			Grommet
mm	Inch	kg/m	lb/100 ft	kg	lb	kN	kg	lb	kN	kN
18	3/4	0.20	13	41,518	91,339	407	37,366	82,205	367	605
20	13/16	0.24	16	49,848	109,665	489	44,863	98,699	440	726
22	7/8	0.29	19	58,707	129,155	576	52,836	116,239	518	855
24	1	0.32	21	64,392	141,663	632	57,953	127,497	569	938
26	1 1/16	0.39	26	78,276	172,206	768	70,448	154,986	691	1,140
28	1 1/8	0.43	29	84,754	186,460	831	76,279	167,814	748	1,235
30	1 1/4	0.52	35	101,282	222,821	994	91,154	200,539	894	1,475
32	1 5/16	0.58	39	111,860	246,092	1,097	100,674	221,483	988	1,630
34	1 3/8	0.64	43	120,454	265,000	1,182	108,409	238,500	1,063	1,755
36	1 1/2	0.69	47	129,313	284,489	1,269	116,382	256,040	1,142	1,884
38	1 9/16	0.78	52	145,556	320,222	1,428	131,000	288,200	1,285	2,120
40	1 5/8	0.87	58	158,667	349,067	1,557	142,800	314,160	1,401	2,311
44	1 3/4	1.04	70	183,789	404,336	1,803	165,410	363,902	1,623	2,677
48	2	1.22	82	211,556	465,422	2,075	190,400	418,880	1,868	3,082
52	2 1/8	1.48	99	255,189	561,416	2,503	229,670	505,274	2,253	3,718
56	2 1/4	1.65	111	282,956	622,502	2,776	254,660	560,252	2,498	4,122
60	2 1/2	1.91	128	321,300	706,860	3,152	289,170	636,174	2,837	4,681
64	2 5/8	2.17	145	359,644	791,218	3,528	323,680	712,096	3,175	5,239
68	2 11/16	2.43	163	397,989	875,576	3,904	358,190	788,018	3,514	5,798
72	2 13/16	2.78	186	452,200	994,840	4,436	406,980	895,356	3,992	6,588
76	3 1/8	3.04	204	490,544	1,079,198	4,812	441,490	971,278	4,331	7,146
80	3 3/16	3.39	227	544,756	1,198,462	5,344	490,280	1,078,616	4,810	7,936

Ropes designed in accordance with ISO 10325:2018

Linear MBL refers to unspliced ropes determined in accordance with ISO2307:2019



Dyneema®	Load	Temperature	Creep Rate	Creep Lifetime
SK75	20%	16 Deg. C	2.3% / yr	7 Years
SK78	20%	16 Deg. C	0.5% / yr	15 Years
SK99	20%	16 Deg. C	1.1% / yr	10 Years
DM20	20%	16 Deg. C	0.01% / yr	25 Years +

## **Key Specifications:**

Material: **Construction:** Coating: **Relative Density:** Chemical Resistance: **UV Resistance: Melting Point: Critical Temperature:** 

Creep:

Dyneema DM20

12 x 1 single braid construction

0.97 (floats)

Excellent resistance to most chemicals Very good

140°C

80°C (exposure to temperatures over this will result in permanent strength loss) Creep is a factor of load, temperature and time. Increasing any of these factors will increase creep

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