

Marlow® DATASHEET

D12+ DM20

Marlow D12+ DM20 (MaxTech) is a premium and versatile “all round” rope offering utilising Dyneema® DM20 that delivers 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.

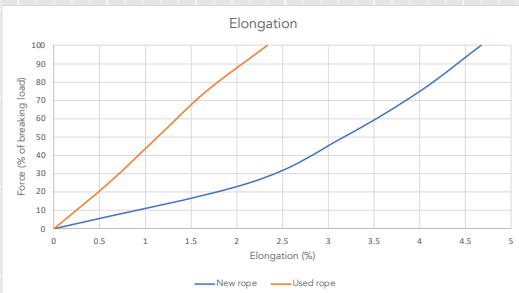
D12+ DM20 (MaxTech) has been designed to offer significantly improved strength, handling and service life and subsequently can provide a more cost effective solution compared to more traditional products.



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	30,333	66,733	298	27,300	60,060	268	442
20	13/16	0.24	16	36,444	80,178	358	32,800	72,160	322	531
22	7/8	0.29	19	42,889	94,356	421	38,600	84,920	379	625
24	1	0.32	21	47,111	103,644	462	42,400	93,280	416	686
26	1 1/16	0.39	26	57,222	125,889	561	51,500	113,300	505	834
28	1 1/8	0.43	29	62,000	136,400	608	55,800	122,760	547	903
30	1 1/4	0.52	35	74,000	162,800	726	66,600	146,520	653	1,078
32	1 5/16	0.58	39	81,778	179,911	802	73,600	161,920	722	1,191
34	1 3/8	0.64	43	88,000	193,600	863	79,200	174,240	777	1,282
36	1 1/2	0.69	47	94,444	207,778	927	85,000	187,000	834	1,376
38	1 9/16	0.78	52	115,556	254,222	1,134	104,000	228,800	1,020	1,683
40	1 5/8	0.87	58	125,556	276,222	1,232	113,000	248,600	1,109	1,829
44	1 3/4	1.04	70	134,444	295,778	1,319	121,000	266,200	1,187	1,959
48	2	1.22	82	154,444	339,778	1,515	139,000	305,800	1,364	2,250
52	2 1/8	1.48	99	186,667	410,667	1,831	168,000	369,600	1,648	2,719
56	2 1/4	1.65	111	206,667	454,667	2,027	186,000	409,200	1,825	3,011
60	2 1/2	1.91	128	235,556	518,222	2,311	212,000	466,400	2,080	3,432
64	2 5/8	2.17	145	263,333	579,333	2,583	237,000	521,400	2,325	3,836
68	2 11/16	2.43	163	291,111	640,444	2,856	262,000	576,400	2,570	4,241
72	2 13/16	2.78	186	330,000	726,000	3,237	297,000	653,400	2,914	4,807
76	3 1/8	3.04	204	358,889	789,556	3,521	323,000	710,600	3,169	5,228
80	3 3/16	3.39	227	397,778	875,111	3,902	358,000	787,600	3,512	5,795

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
DM20	20%	16 Deg. C	0.01% / yr	25 Years +

Key Specifications:

Material:	Dyneema DM20
Construction:	12 x 1 single braid construction
Coating:	Marlow ArmourCoat Polyurathane
Relative Density:	0.97 (floats)
Chemical Resistance:	Excellent resistance to most chemicals
UV Resistance:	Very good
Melting Point:	140°C
Critical Temperature:	80°C (exposure to temperatures over this will result in permanent strength loss)
Creep:	Creep is a factor of load, temperature and time. Increasing any of these factors will increase creep.