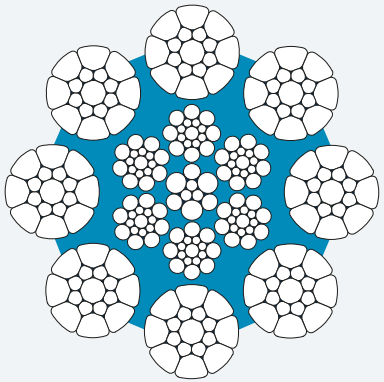
CASAR **DUROPLAST M**



- High performance mining rope
- 8-strand construction with compacted outer strands
- Fully lubricated
- Plastic layer between steel core and outer strands
- Very high breaking force
- Excellent resistance to abrasion
- Available in ordinary (regular) lay or langs lay

PROPERTIES

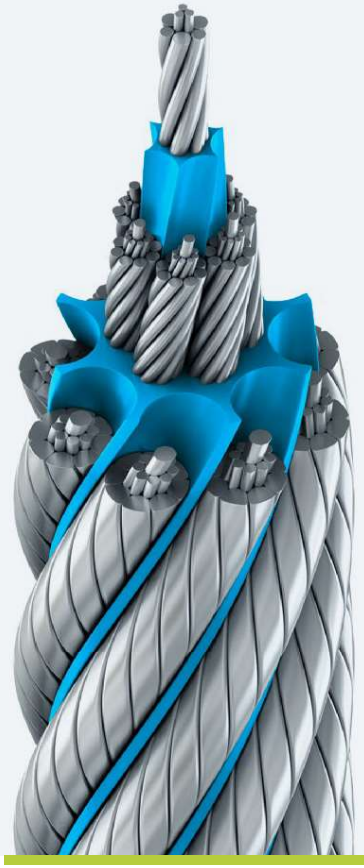
No swivel · Lubricated · Tolerance · Plast rope

Compacted · High Breaking Force · preformed

APPLICATIONS

High performance hoist rope with a very high resistance against abrasion and drum crushing. Our CASAR Duroplast MD is particularly developed for heavy duty, multi-layer drum winder applications as well as incline haulage or conveyor drive applications. In addition, the compacted strands with maximized outer wire sizes offer an increased resistance against a corrosive environment.

Shaft Sinking · Koepe Winder head rope



Nominal Diameter		metallic area		Weight		Aggregate Breaking Force				Minimum Breaking Force			
						1770 N/mm²		1960 N/mm²		1770 N/mm²		1960 N/mm²	
mm	inch	mm²	Sqin	kg/m	lb/ft	kN	lbs	kN	lbs	kN	lbs	kN	lbs
20		204.7	0.3173	1.78	1.20	362.3	81,453	401.2	90,196	303.3	68,192	335.9	75,512
21		225.7	0.3498	1.96	1.32	399.5	89,809	442.4	99,449	334.5	75,188	370.4	83,259
22		247.7	0.3839	2.16	1.45	438.4	98,563	485.5	109,143	367.1	82,517	406.5	91,374
	7/8	252.8	0.3918	2.20	1.48	447.4	100,589	495.5	111,387	374.6	84,213	414.8	93,253
23		270.8	0.4197	2.36	1.59	479.3	107,755	530.8	119,321	401.3	90,212	444.4	99,896
24		294.8	0.4569	2.56	1.72	521.8	117,304	577.8	129,896	436.8	98,207	483.7	108,749
25		319.9	0.4958	2.78	1.87	566.2	127,292	627.0	140,956	474.0	106,569	524.9	118,008
	1	330.2	0.5118	2.87	1.93	584.5	131,398	647.2	145,503	489.3	110,006	541.9	121,815
26		346.0	0.5363	3.01	2.02	612.4	137,677	678.2	152,456	512.7	115,264	567.8	127,637
27		373.1	0.5783	3.25	2.18	660.4	148,461	731.3	164,397	552.9	124,291	612.2	137,633
28		401.3	0.6220	3.49	2.35	710.3	159,682	786.5	176,823	594.7	133,686	658.5	148,036
	1 1/8	418.0	0.6478	3.63	2.44	739.8	166,308	819.2	184,160	619.3	139,233	685.8	154,179
29		430.5	0.6673	3.75	2.52	762.0	171,301	843.8	189,689	637.9	143,413	706.4	158,808
30		460.7	0.7141	4.01	2.69	815.4	183,318	903.0	202,996	682.7	153,474	756.0	169,948
31		491.9	0.7624	4.28	2.88	870.7	195,733	964.1	216,744	728.9	163,867	807.2	181,458
	1 1/4	516.0	0.7998	4.49	3.02	913.3	205,318	1,011.3	227,358	764.6	171,892	846.7	190,344
32		524.1	0.8124	4.56	3.06	927.7	208,546	1,027.2	230,932	776.6	174,594	860.0	193,336
33		557.4	0.8640	4.85	3.26	986.6	221,796	1,092.5	245,605	826.0	185,688	914.6	205,620
34		591.7	0.9171	5.15	3.46	1,047.3	235,444	1,159.7	260,718	876.8	197,114	970.9	218,273
35		627.0	0.9719	5.46	3.67	1,109.8	249,491	1,228.9	276,272	929.1	208,874	1,028.9	231,295
	1 3/8	639.2	0.9907	5.57	3.74	1,131.3	254,325	1,252.7	281,626	947.1	212,921	1,048.8	235,777
36		663.4	1.0283	5.77	3.88	1,174.2	263,975	1,300.3	292,311	983.1	221,000	1,088.6	244,723
37		700.7	1.0861	6.10	4.10	1,240.2	278,817	1,373.4	308,746	1,038.3	233,425	1,149.8	258,482
38		739.1	1.1456	6.43	4.32	1,308.2	294,097	1,448.6	325,666	1,095.2	246,218	1,212.8	272,648
	1 1/2	743.0	1.1516	6.46	4.34	1,315.1	295,646	1,456.3	327,383	1,101.0	247,515	1,219.2	274,085
39		778.5	1.2067	6.77	4.55	1,377.9	309,774	1,525.9	343,027	1,153.6	259,343	1,277.4	287,182
40		819.0	1.2695	7.12	4.78	1,449.6	325,890	1,605.2	360,872	1,213.6	272,835	1,343.9	302,122
41		860.4	1.3336	7.49	5.03	1,522.9	342,363	1,686.4	379,114	1,275.0	286,627	1,411.8	317,394
42		902.9	1.3995	7.86	5.28	1,598.1	359,275	1,769.7	397,841	1,338.0	300,785	1,481.6	333,072
	1 5/8	872.0	1.3516	7.59	5.10	1,543.4	346,978	1,709.1	384,224	1,292.2	290,490	1,430.9	321,673
43		946.4	1.4669	8.23	5.53	1,675.1	376,584	1,854.9	417,008	1,402.4	315,276	1,553.0	349,119
44		990.9	1.5359	8.62	5.79	1,753.9	394,291	1,942.2	436,616	1,468.4	330,100	1,626.0	365,535
	1 3/4	1,011.3	1.5675	8.80	5.91	1,790.0	402,397	1,982.1	445,592	1,498.5	336,887	1,659.4	373,050
45		1,036.5	1.6066	9.02	6.06	1,834.6	412,436	2,031.5	456,708	1,535.9	345,291	1,700.8	382,356
46		1,083.1	1.6788	9.42	6.33	1,917.1	430,978	2,122.9	477,241	1,605.0	360,815	1,777.3	399,547
47		1,130.7	1.7526	9.84	6.61	2,001.3	449,919	2,216.2	498,215	1,675.5	376,672	1,855.4	417,106
	1 7/8	1,161.0	1.7995	10.10	6.79	2,054.9	461,964	2,275.5	511,554	1,720.4	386,757	1,905.1	428,273
48		1,179.3	1.8279	10.26	6.89	2,087.4	469,257	2,311.4	519,630	1,747.5	392,862	1,935.1	435,034
49		1,229.0	1.9050	10.69	7.18	2,175.3	489,034	2,408.8	541,529	1,821.2	409,419	2,016.7	453,368
50		1,279.6	1.9834	11.13	7.48	2,264.9	509,168	2,508.0	563,824	1,896.2	426,275	2,099.7	472,034

Product specifications are subject to change without notice or obligation. The shown drawings or cross sections are only for illustrative purposes; the images can vary depending on requested diameter and current status of technical development. This table is for reference only. Additional sizes available upon request.

Special constructions and diameters available – please contact us directly.