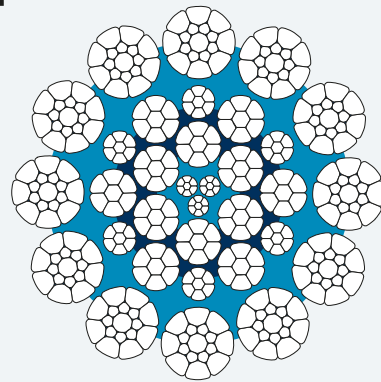
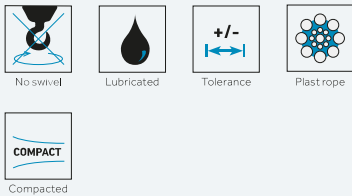


# CASAR MINEPLAST VM

- High performance mining rope
- Rotation resistant
- Fully lubricated
- Plastic layer between steel core and outer strands
- Very high breaking force
- Good resistance to drum crushing
- Available in ordinary (regular) lay or lang's lay

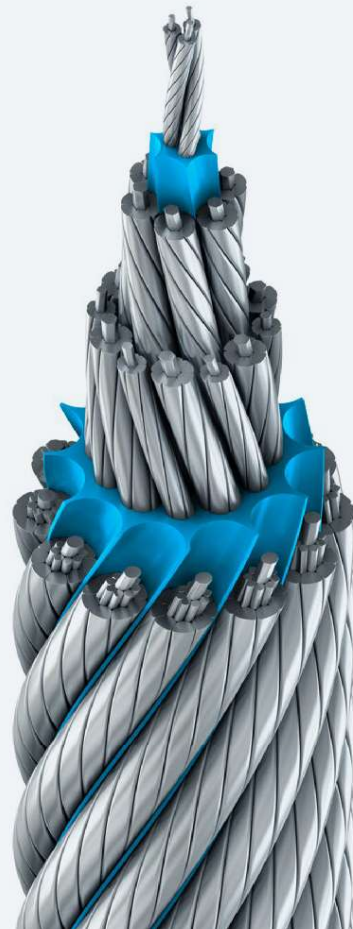
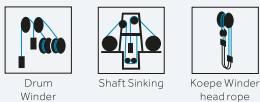


## PROPERTIES



## APPLICATIONS

High performance hoist rope for drum and for koepe friction winder applications, where rotation-resistant ropes are required. Rope design and manufacturing parameters are adjusted according to the application, i.e. Mineplast VMD and Mineplast VMF. The Mineplast VM with compacted strands offers a very high fatigue resistance as well as a good resistance to drum crushing. This design is continuously improved, particularly the inner elements, to achieve the optimum strand-to-strand contact conditions and to offer the best possible service life.



Nominal Diameter		metallic area		Weight		Aggregate Breaking Force				Minimum Breaking Force			
						1770 N/mm <sup>2</sup>		1960 N/mm <sup>2</sup>		1770 N/mm <sup>2</sup>		1960 N/mm <sup>2</sup>	
mm	inch	mm <sup>2</sup>	Sqin	kg/m	lb/ft	kN	lbs	kN	lbs	kN	lbs	kN	lbs
20		213.5	0.3509	1.84	1.24	377.9	84,955	418.5	94,075	297.6	66,903	329.6	74,097
21		235.4	0.3648	2.03	1.37	416.6	93,663	461.4	103,717	328.1	73,760	363.4	81,696
22		258.3	0.4004	2.23	1.50	457.3	102,796	506.3	113,830	360.1	80,954	398.8	89,654
	7/8	263.6	0.4087	2.28	1.53	466.7	104,909	516.8	116,171	367.4	82,595	407.2	91,542
23		282.4	0.4377	2.44	1.64	499.8	112,353	553.4	124,414	393.6	88,485	435.9	97,994
24		307.4	0.4765	2.66	1.78	544.2	122,336	602.6	135,468	428.6	96,353	474.6	106,694
25		333.6	0.5171	2.88	1.94	590.5	132,743	653.9	146,992	465.0	104,536	515.0	115,777
	1	344.4	0.5338	2.97	2.00	609.5	137,024	674.9	151,733	480.0	107,908	531.6	119,511
26		360.8	0.5593	3.12	2.09	638.7	143,574	707.2	158,986	503.0	113,079	557.0	125,219
27		389.1	0.6031	3.36	2.26	688.7	154,831	762.7	171,451	542.4	121,936	600.7	135,043
28		418.5	0.6486	3.61	2.43	740.7	166,512	820.2	184,386	583.3	131,131	646.0	145,227
	1 1/8	435.8	0.6755	3.76	2.53	771.4	173,421	854.2	192,037	607.5	136,572	672.8	151,252
29		448.9	0.6958	3.88	2.61	794.5	178,618	879.8	197,792	625.8	140,685	692.9	155,770
30		480.4	0.7446	4.15	2.79	850.3	191,149	941.5	211,668	669.7	150,555	741.5	166,696
31		512.9	0.7951	4.43	2.98	907.9	204,105	1,005.4	226,014	715.0	160,738	791.8	178,004
32	1 1/4	538.1	0.8340	4.65	3.12	952.4	214,100	1,054.6	237,083	761.9	171,282	843.7	189,671
33		581.3	0.9010	5.02	3.37	1,028.8	231,291	1,139.3	256,118	810.3	182,163	897.3	201,721
34		617.0	0.9564	5.33	3.58	1,092.1	245,521	1,209.4	271,876	860.1	193,358	952.5	214,130
35		653.9	1.0135	5.65	3.79	1,157.3	260,175	1,281.5	288,104	911.5	204,913	1,009.3	226,900
36	1 3/8	651.1	1.0091	5.62	3.78	1,152.4	259,061	1,276.1	286,870	964.3	216,783	1,067.8	240,051
37		730.7	1.1326	6.31	4.24	1,293.4	290,759	1,432.2	321,971	1,018.6	228,990	1,128.0	253,584
38	1 1/2	774.8	1.2009	6.69	4.50	1,371.4	308,305	1,518.6	341,399	1,074.4	241,535	1,189.8	267,478
39		811.8	1.2584	7.01	4.71	1,437.0	323,042	1,591.2	357,719	1,131.7	254,416	1,253.2	281,731
40		854.0	1.3237	7.38	4.96	1,511.6	339,821	1,673.9	376,299	1,190.5	267,635	1,318.3	296,366
41		897.2	1.3907	7.75	5.21	1,588.1	357,024	1,758.6	395,349	1,250.8	281,191	1,385.0	311,360
	1 5/8	909.3	1.4094	7.85	5.28	1,609.5	361,830	1,782.3	400,670	1,267.6	284,976	1,403.6	315,551
42		941.5	1.4594	8.13	5.46	1,666.5	374,652	1,845.4	414,869	1,312.5	295,062	1,453.4	326,737
43		986.9	1.5297	8.52	5.73	1,746.8	392,705	1,934.4	434,860	1,375.8	309,292	1,523.5	342,496
44		1,033.4	1.6017	8.93	6.00	1,829.0	411,183	2,025.4	455,322	1,440.5	323,837	1,595.1	358,593
	1 3/4	1,054.6	1.6346	9.11	6.12	1,866.6	419,637	2,067.0	464,683	1,470.1	330,495	1,627.9	365,965
45		1,080.9	1.6753	9.34	6.27	1,913.1	430,086	2,118.5	476,253	1,506.7	338,720	1,668.5	375,094
46		1,129.4	1.7506	9.75	6.55	1,999.1	449,413	2,213.7	497,655	1,574.4	353,939	1,743.5	391,954
47		1,179.1	1.8276	10.18	6.84	2,087.0	469,165	2,311.0	519,527	1,643.6	369,496	1,820.1	409,175
	1 7/8	1,210.6	1.8765	10.46	7.03	2,142.8	481,726	2,372.8	533,437	1,687.6	379,388	1,868.8	420,129
48		1,229.8	1.9062	10.62	7.14	2,176.7	489,342	2,410.4	541,870	1,714.3	385,390	1,898.4	426,777
49		1,281.5	1.9864	11.07	7.44	2,268.3	509,944	2,511.8	564,683	1,786.5	401,621	1,978.3	444,739
50		1,334.4	2.0683	11.53	7.74	2,361.9	530,970	2,615.4	587,967	1,860.2	418,190	2,059.8	463,061
	2	1,377.4	2.1350	11.90	7.99	2,438.1	548,097	2,699.8	606,932	1,935.3	435,073	2,143.1	481,788
52		1,443.3	2.2371	12.47	8.38	2,554.6	574,297	2,828.8	635,945	2,012.0	452,316	2,227.9	500,852
53		1,499.3	2.3239	12.95	8.70	2,653.8	596,598	2,938.7	660,640	2,090.1	469,873	2,314.4	520,298
54	2 1/8	1,555.0	2.4102	13.43	9.02	2,752.3	618,750	3,047.8	685,170	2,169.7	487,768	2,402.6	540,126
55		1,614.6	2.5027	13.95	9.37	2,857.9	642,474	3,164.6	711,440	2,250.8	506,000	2,492.4	560,314
56		1,673.9	2.5945	14.46	9.71	2,962.7	666,049	3,280.8	737,546	2,333.4	524,569	2,583.9	580,884
57	2 1/4	1,743.3	2.7021	15.06	10.12	3,085.7	693,685	3,416.9	768,149	2,417.5	543,476	2,677.0	601,813
58		1,795.6	2.7831	15.51	10.42	3,178.1	714,473	3,519.3	791,168	2,503.0	562,697	2,771.7	623,103
59		1,858.0	2.8799	16.05	10.78	3,288.7	739,323	3,641.7	818,685	2,590.1	582,278	2,868.1	644,774
60		1,921.5	2.9784	16.60	11.15	3,401.1	764,597	3,766.2	846,672	2,678.6	602,173	2,966.2	666,828
	2 3/8	1,942.4	3.0107	16.78	11.27	3,438.0	772,902	3,807.1	855,869	2,707.6	608,693	2,998.4	674,067
61		1,986.1	3.0785	17.15	11.53	3,515.4	790,296	3,892.8	875,130	2,768.5	622,383	3,065.9	689,242
62		2,051.8	3.1802	17.72	11.91	3,631.6	816,420	4,021.5	904,058	2,860.0	642,953	3,167.2	712,015
63		2,118.5	3.2836	18.30	12.30	3,749.7	842,968	4,152.2	933,456	2,953.0	663,861	3,270.2	735,170
	2 1/2	2,152.2	3.3360	18.59	12.49	3,809.5	856,402	4,218.4	948,332	3,000.1	674,449	3,322.3	746,883
64		2,186.3	3.3887	18.88	12.69	3,869.7	869,941	4,285.1	963,325	3,047.5	685,105	3,374.9	758,708
65		2,255.1	3.4954	19.48	13.09	3,991.6	897,339	4,420.0	993,664	3,143.5	706,687	3,481.2	782,605

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