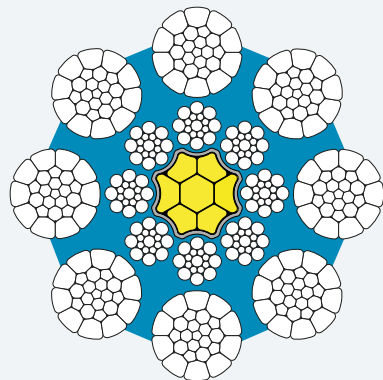
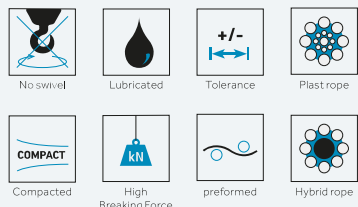


CASAR TURBOLITE M



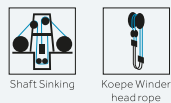
- New Innovation
- High performance mining rope
- Lightest hybrid mine hoist rope worldwide
- Best strength to weight ratio hoist rope on the market
- High strength fiber core for increased strength and resistance to bending fatigue
- Minimized stretch compared to other fiber core hoist ropes
- Plastic layer between core and outer strands
- Available in ordinary (regular) lay or lang's lay

PROPERTIES



APPLICATIONS

Our latest innovation by Union, one of the two production families within WireCo WorldGroup. The steel and synthetic rope technology designed to our high performance hybrid rope CASAR Turbolite M. With the combination of steel and synthetic components, this innovative design offers a high breaking force, excellent fatigue as well as very good crushing and wear resistance. This makes our CASAR Turbolite M the future product for deep mining applications where the rope weight becomes a limitation factor for the hoisting capacity.



Nominal Diameter		metallic area		Weight		Aggregate Breaking Force				Minimum Breaking Force			
						1770 N/mm ²		1960 N/mm ²		1770 N/mm ²		1960 N/mm ²	
mm	inch	mm ²	Sqin	kg/m	lb/ft	kN	lbs	kN	lbs	kN	lbs	kN	lbs
20		191.8	0.2973	1.67	1.12	339.5	76,320	375.9	84,512	310.0	69,691	343.2	77,155
21		211.4	0.3277	1.85	1.24	374.2	84,119	414.3	93,149	341.7	76,818	378.4	85,068
22		232.0	0.3596	2.03	1.36	410.6	92,316	454.7	102,226	375.1	84,326	415.3	93,364
23		253.6	0.3931	2.21	1.49	448.9	100,911	497.1	111,743	409.9	92,150	453.9	102,041
24		276.1	0.4280	2.41	1.62	488.7	109,864	541.2	121,657	446.4	100,355	494.3	111,124
25		299.6	0.4644	2.61	1.75	530.3	119,215	587.2	132,012	484.3	108,875	536.3	120,566
26		324.1	0.5024	2.83	1.90	573.7	128,964	635.2	142,807	523.9	117,778	580.1	130,412
27		349.5	0.5417	3.05	2.05	618.6	139,071	685.0	153,999	564.9	126,995	625.6	140,641
28		375.8	0.5825	3.28	2.20	665.2	149,536	736.6	165,588	607.6	136,595	672.8	151,252
29		403.2	0.6250	3.52	2.37	713.7	160,439	790.3	177,661	651.7	146,509	721.7	162,245
30		431.4	0.6687	3.77	2.53	763.6	171,660	845.5	190,087	697.4	156,782	772.3	173,621
31		460.7	0.7141	4.03	2.71	815.4	183,319	903.0	202,997	744.7	167,416	824.7	185,401
32		490.9	0.7609	4.29	2.88	868.9	195,336	962.2	216,304	793.5	178,387	878.7	197,541
33		522.0	0.8091	4.56	3.06	923.9	207,711	1,023.1	230,008	843.9	189,717	934.5	210,085
34		554.2	0.8590	4.85	3.26	980.9	220,524	1,086.2	244,196	895.8	201,385	992.0	223,012
35		587.2	0.9102	5.13	3.45	1,039.3	233,655	1,150.9	258,737	949.3	213,412	1,051.2	236,320
36		621.3	0.9630	5.43	3.65	1,099.7	247,224	1,217.7	273,762	1,004.3	225,777	1,112.1	250,011
37		656.3	1.0173	5.73	3.85	1,161.7	261,151	1,286.3	289,184	1,060.9	238,501	1,174.8	264,107
38		692.2	1.0729	6.05	4.07	1,225.2	275,436	1,356.7	305,002	1,119.0	251,562	1,239.1	278,562
39		729.1	1.1301	6.37	4.28	1,290.5	290,119	1,429.0	321,262	1,178.7	264,984	1,305.2	293,422
40		767.0	1.1889	6.7	4.50	1,357.6	305,200	1,503.3	337,961	1,239.9	278,742	1,373.0	308,664
41		805.8	1.2490	7.04	4.73	1,426.3	320,639	1,579.4	355,058	1,302.7	292,860	1,442.5	324,288
42		845.6	1.3107	7.38	4.96	1,496.7	336,476	1,657.4	372,595	1,367.0	307,315	1,513.7	340,295
43		886.4	1.3739	7.75	5.21	1,568.9	352,711	1,737.3	390,572	1,432.9	322,130	1,586.7	356,706
44		928.1	1.4386	8.11	5.45	1,642.7	369,304	1,819.1	408,946	1,500.3	337,282	1,661.3	373,477
45		970.7	1.5046	8.48	5.70	1,718.1	386,255	1,902.6	427,717	1,569.2	352,772	1,737.7	390,652
46		1,014.4	1.5723	8.86	5.95	1,795.5	403,644	1,988.2	446,973	1,639.8	368,643	1,815.8	408,210
47		1,058.9	1.6413	9.25	6.22	1,874.3	421,351	2,075.4	466,581	1,711.8	384,830	1,895.6	426,150
48		1,104.5	1.7120	9.65	6.48	1,955.0	439,496	2,164.8	486,673	1,785.5	401,398	1,977.1	444,472
49		1,151.0	1.7841	10.05	6.75	2,037.3	457,999	2,256.0	507,162	1,860.6	418,281	2,060.4	463,199
50		1,198.4	1.8575	10.47	7.04	2,121.2	476,860	2,348.9	528,048	1,937.3	435,524	2,145.3	482,285
51		1,246.9	1.9327	10.89	7.32	2,207.0	496,159	2,443.9	549,419	2,015.6	453,127	2,232.0	501,776
52		1,296.2	2.0091	11.33	7.61	2,294.3	515,776	2,540.6	571,141	2,095.4	471,067	2,320.4	521,649
53		1,346.6	2.0872	11.76	7.90	2,383.5	535,831	2,639.3	593,349	2,176.8	489,366	2,410.5	541,905
54		1,397.9	2.1667	12.21	8.20	2,474.3	556,244	2,739.9	615,953	2,259.7	508,003	2,502.3	562,542
55		1,450.1	2.2477	12.67	8.51	2,566.7	577,015	2,842.2	638,954	2,344.2	527,000	2,595.8	583,562
56		1,503.3	2.3301	13.13	8.82	2,660.8	598,184	2,946.5	662,395	2,430.2	546,333	2,691.1	604,986
57		1,557.5	2.4141	13.61	9.15	2,756.8	619,751	3,052.7	686,277	2,517.8	566,027	2,788.0	626,770
58		1,612.6	2.4995	14.09	9.47	2,854.3	641,676	3,160.7	710,556	2,606.9	586,057	2,886.7	648,959
59		1,668.7	2.5865	14.58	9.80	2,953.6	663,999	3,270.7	735,275	2,697.6	606,447	2,987.1	671,530
60		1,725.8	2.6750	15.08	10.13	3,054.7	686,719	3,382.6	760,435	2,789.8	627,175	3,089.2	694,483

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.