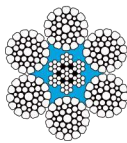


# POWERFIL Rope

# 5

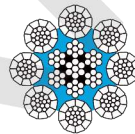
Powerfil rope is specialized for crane rope which has compacted outer strands and developed for cranes. It's filled with the special fiber yarn between the compacted outer strand and inner strand with IWRC structure. It has the extended life time through reducing pressure between outer strands and inner parts of the wire rope and keeping inner parts of wire ropes from rust and dirt that cause fractions of wire ropes to ropes. The special fiber yarn increase corrosion resistance and 30% durability than normal wire ropes by providing lubrication to IWRC.

## 1. Special Crane



POWERFIL 6

## 2. Harbor Crane



POWERFIL 8

## © Properties



COMPACTED



NON-ROTATING



FIBER FILLED



# 1. Special Crane

## POWERFIL 6

Nominal Dia.		Minimum Breaking Load (Metric Ton)			Approx Weight
		180 Kg/mm <sup>2</sup>	200 Kg/mm <sup>2</sup>	220 Kg/mm <sup>2</sup>	
mm	inch	1770 N/mm <sup>2</sup>	1960 N/mm <sup>2</sup>	2160 N/mm <sup>2</sup>	Kg/m
18		25.6	27.7	29.0	1.53
19	3/4	28.5	30.9	32.3	1.71
20		31.6	34.2	35.8	1.89
21	13/16	34.8	37.7	39.4	2.09
22		38.2	41.4	43.3	2.29
22.2	7/8	39.0	42.3	44.2	2.34
24	15/16	45.5	49.3	51.5	2.73
25		49.3	53.5	55.9	2.96
25.4	1	50.9	55.2	57.7	3.05
26		53.4	57.9	60.5	3.20
28		61.9	67.1	70.1	3.71
28.6	1-1/8	64.6	70.0	73.2	3.87
30	1-3/16	71.1	77.0	80.5	4.26
31.8	1-1/4	79.8	86.5	90.4	4.79
32		80.8	87.6	91.6	4.85
34		91.3	98.9	103.4	5.47
35	1-3/8	96.7	104.8	109.6	5.80
36		102.3	110.9	115.9	6.14
38.1	1-1/2	114.0	124.2	129.8	6.87
40		126.3	136.9		7.58
42		139.3	151.0		8.35
44		152.9	165.7		9.17
44.5	1-3/4	156.0	169.1		9.35
46		167.1	181.1		10.02
48		181.9			10.91
50		197.4			11.84
50.8	2	203.8			12.22
52		213.5			12.80



# 2. Harbor Crane

## POWERFIL 8

Nominal Dia.		Minimum Breaking Load (Metric Ton)			Approx Weight
		180 Kg/mm <sup>2</sup>	200 Kg/mm <sup>2</sup>	220 Kg/mm <sup>2</sup>	
mm	inch	1770 N/mm <sup>2</sup>	1960 N/mm <sup>2</sup>	2160 N/mm <sup>2</sup>	Kg/m
22		39.2	43.2	46.1	2.17
23		42.8	47.2	50.4	2.37
24		46.7	51.4	54.8	2.58
25		50.6	55.8	59.5	2.80
26		54.8	60.3	64.3	3.03
28		63.5	69.9	74.6	3.51
28.6	1-1/8	66.3	73.0	77.8	3.66
30	1-3/16	72.9	80.3	85.7	4.03
32		83.0	91.4	97.5	4.58
34		93.7	103.1	110.0	5.18
35		99.2	109.3	116.6	5.48
36		105.0	115.6	123.3	5.80
38		117.0	128.8	137.4	6.47
38.1	1-1/2	117.6	129.5	138.1	6.50
40		129.6	142.8	152.3	7.16
42		142.9	157.4		7.90
44		156.8	172.7		8.67
45		164.1	180.7		9.07
46		171.4	188.8		9.57
48		186.7	205.6		10.42

□ Available upon request (Operation in poor condition is not recommendable.)