ArcelorMittal ROPES
ENGINEERING EXCELLENCE

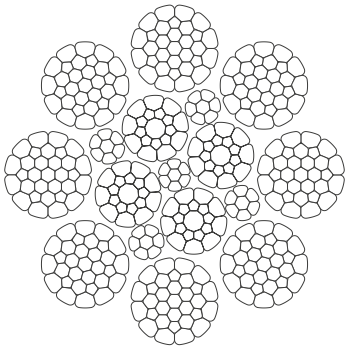
HOISTING ROPES

8xK31WS-PWRC(K) / RCN.11

Integral 8/8xK31WS

8 outer strands parallel closed rope

Integral 8/8xK31WS is a parallel closed rope with 8 outer strands for applications where a very high breaking strength is required.



Features:

- 8 outer strands, parallel closed rope
- Extremely high breaking load (high fill factor)
- Bright or galvanised steel wires 2160 N/mm²

Integral 8/8xK31WS/2018/v1.0

Diameter		Section	Mass	Minimum breaking load
mm	inch	mm²	kg/m	kN
				2160 MPa
30	-	521.2	4.55	942
32	1-1/4	602.8	5.29	1086
34	1-3/8	680.5	5.97	1226
36	-	762.9	6.69	1375
38	1-1/2	842.2	7.38	1495
40	-	943.3	8.27	1658
42	1-5/8	1040.0	9.12	1828
44.5	-	1117.1	9.74	2003
46	-	1193.7	10.41	2140
48	1-7/8	1296.6	11.35	2309
50	2	1406.9	12.32	2505
50.8	-	1452.3	12.71	2586
52	-	1521.7	13.32	2710

Please note: Other diameters with other tolerances than those shown here can be made on studies.

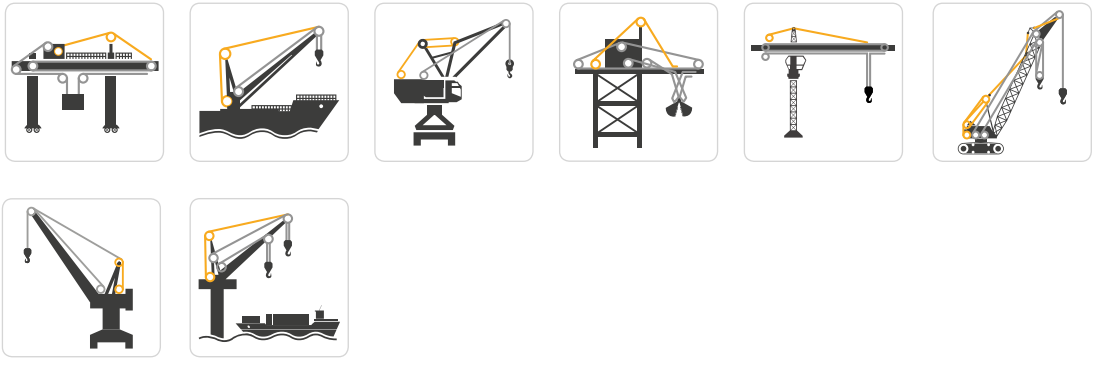
⚠ **Never use with swivel**

f - Fill Factor	**k** - Spinning Loss Factor
0.733	0.830

Indicative values - Tolerance on diameter: ArcelorMittal design (0; +4%)

PLEASE NOTE: Due to its parallel closed geometry, this rope should only be used with both ends prevented from rotating and under a significant tension.

Applications



KEY

- Hoist
- Trolley
- Boom Luffing
- Grab
- Auxiliary Hoist
- Pipe Handling

ArcelorMittal

Integral 8 wire rope properties

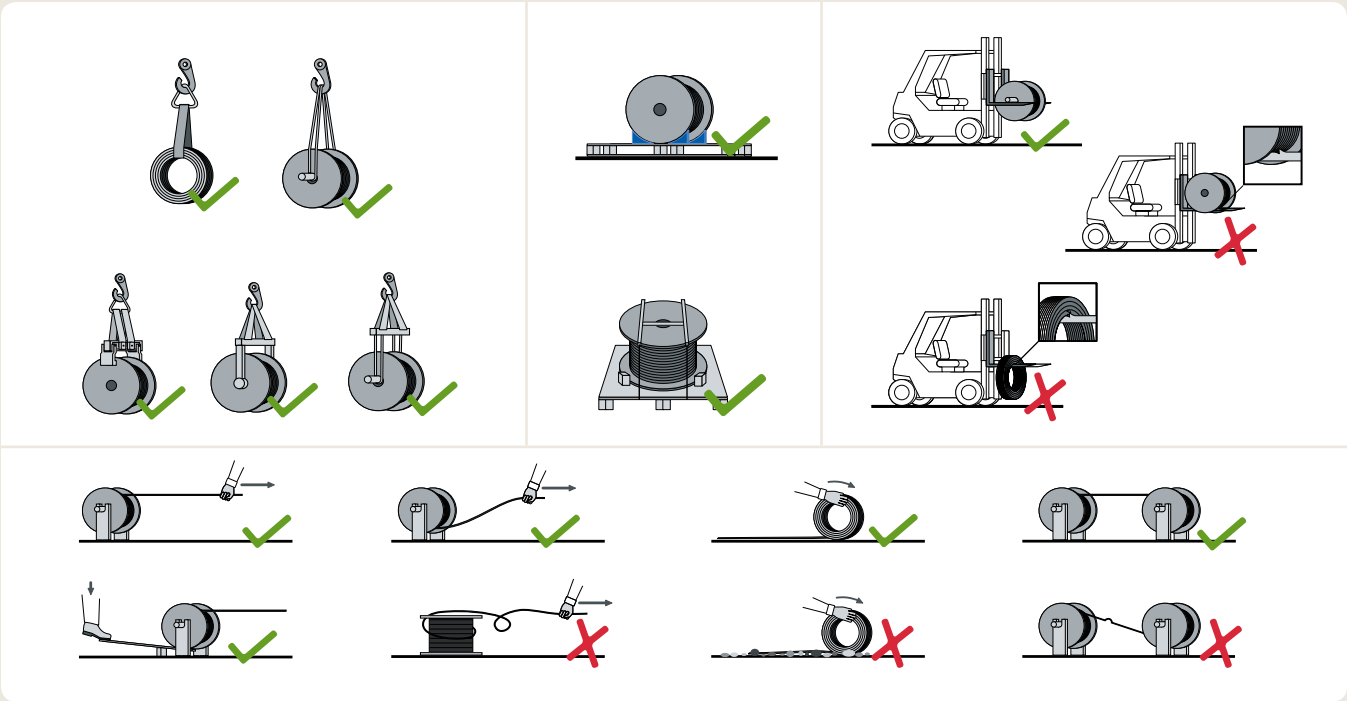
Lubrication	Compaction	High Breaking Resistance	Resistance to Crushing	Regular Lay Rope
Extends the life and increases rope performance.	Smoother outer surface with increased strength and reduced wear.	Ropes featuring a high breaking force.	Ropes designed to withstand or resist external forces.	Less core sensitivity with a non-rotational property.

Storage and maintenance

The rope must be adequately maintained and regularly lubricated, as often as it is necessary, but at least when the rope works in extreme conditions and before/after prolonged inactivity. The lubricant must be compatible with the original grease. Before re-lubrication, the wire rope must be dry and cleaned by scraping. Cleaning by cloth, cryogenic spray, high pressure cleaner and solvents are forbidden.

When stored, the rope should be kept in a dry and ventilated environment with no direct contact with the floor and an air flow under the reel. Visual inspection is necessary before the use of a stored wire rope. In case of doubt of the quality of the wire rope, we can help you to find and make additional inspection analysis.

EWRIS handling recommendations



At all times, contact of the rope with any metallic pieces should be avoided to prevent early damage.

EWRIS
European Federation of Steel Wire Rope Industries

ISO 9001 · ISO 14001 · OHSAS 18001

High performance **Hoisting Ropes**
for the most demanding environments

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