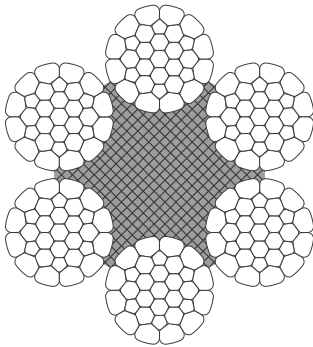


6xK31WS-SFC / RCN.08

# HDHP 6/6xK31WS

6 outer strands with fibre core

**HDHP 6/6xK31WS** is a light use, regular lay rope with 6 outer strands over a fibre core. HDHP 6 can be used for applications such as pendant ropes, electric hoists, cranes, trolley ropes and drilling.



## Features:

- 6 outer strands on a fibre core
- Bright or galvanised steel wires

HDHP 6/6xK31WS/2018/v1.0

Diameter		Section	Mass	Minimum breaking load
mm	inch	mm <sup>2</sup>	kg/m	kN
<b>2160 MPa</b>				
10	-	46.3	0.41	87.5
11	7/16	56.1	0.50	106
12	-	66.7	0.60	127
13	1/2	78.3	0.70	149.5
14	9/16	90.8	0.82	174
16	5/8	118.6	1.03	219
18	-	150.1	1.34	287
19	-	167.3	1.48	316
20	-	185.4	1.62	346
22	7/8	224.3	1.99	425
24	-	266.9	2.38	503
25	-	289.6	2.60	547
26	1	313.2	2.78	586
28	1-1/8	363.3	3.26	680

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

**⚠ Never use with swivel**

f - Fill Factor

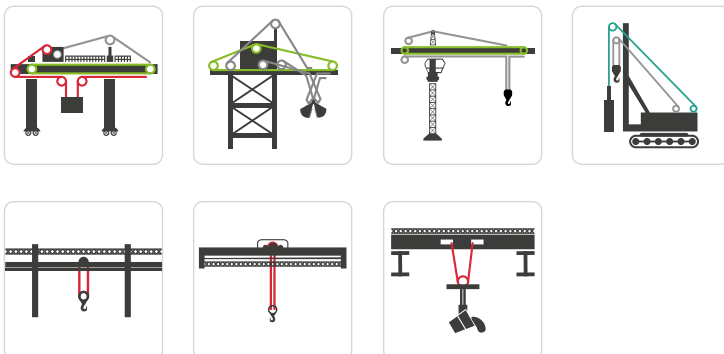
k - Spinning Loss Factor

0.590

0.875

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





## Applications



### KEY

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

## HDHP 6 wire rope properties

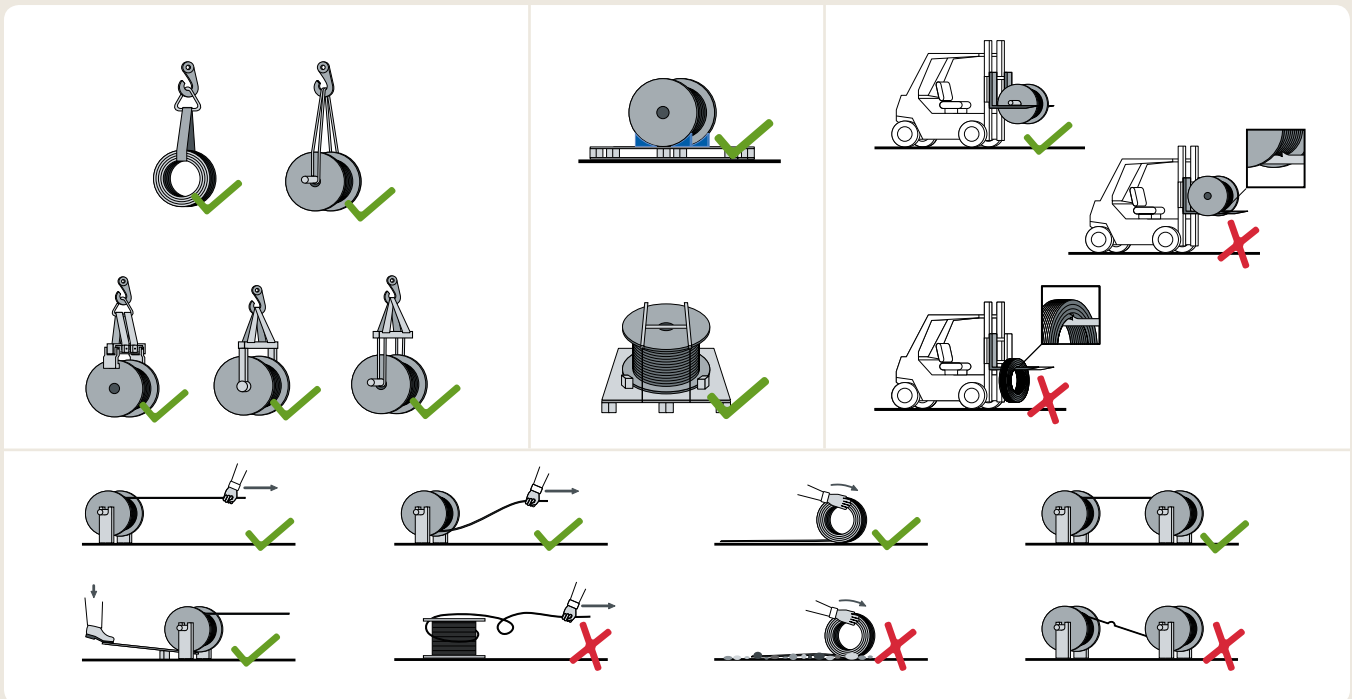
 <p><b>Lubrication</b></p>	 <p><b>Compaction</b></p>	 <p><b>Resistance to Crushing</b></p>	 <p><b>Regular Lay Rope</b></p>
<p>Extends the life and increases rope performance.</p>	<p>Smoother outer surface with increased strength and reduced wear.</p>	<p>Ropes designed to withstand or resist external forces.</p>	<p>Less core sensitivity with a non-rotational property.</p>

## 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



The diagram illustrates various handling scenarios for wire rope. It is divided into three main sections:

- Top Left:** Shows correct lifting techniques using hooks and slings, marked with green checkmarks.
- Top Middle:** Shows correct storage on a pallet with a green checkmark, and an incorrect storage method on the floor marked with a red X.
- Top Right:** Shows a forklift correctly moving a reel on a pallet (green checkmark) and incorrectly moving it on the floor (red X).
- Bottom:** A grid of 12 small diagrams showing correct (green checkmarks) and incorrect (red X) ways to handle rope on reels and during transport.

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



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

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