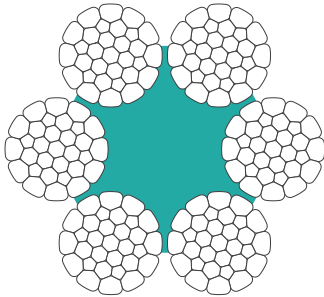


6xK31WS-SPC

# WSR31 compacted

6 strand ropes from ArcelorMittal ROPES offer superior strength, stretch resistance and resistance to bending fatigue.



**6xK31WS-SPC** is a 6 strand compacted rope with an exceptionally high breaking load that is designed for fixed and detachable chairlifts, funitels, gondolas, passenger and material cable cars and tramways. WSR31 Compacted is a lang lay rope engineered for high resistance to abrasion, stretching, bending and crushing.

Diameter mm	Section mm <sup>2</sup>	Mass kg/m	Minimum breaking load							
			1570 MPa		1770 MPa		1960 MPa		Max MPa	
			Total	MBL	Total	MBL	Total	MBL	Total	MBL
30	420	3.659	680	585	764	657	855	735	903	777
31	448	3.910	726	625	816	702	913	785	965	830
32	478	4.169	774	666	870	748	974	838	1029	885
33	509	4.437	824	709	926	796	1036	891	1095	942
34	540	4.713	875	753	983	846	1101	947	1163	1000
35	573	4.997	928	798	1043	897	1167	1004	1233	1061
36	606	5.289	982	845	1104	949	1235	1062	1306	1123
37	641	5.589	1038	893	1166	1003	1306	1123	1380	1187
38	676	5.898	1096	942	1231	1059	1378	1185	1456	1252
39	713	6.215	1155	993	1297	1115	1452	1248	1534	1319
40	750	6.540	1215	1045	1365	1174	1528	1314	1614	1388
40.5	769	6.706	1246	1071	1399	1204	1566	1347	1655	1424
41	788	6.873	1277	1098	1434	1234	1606	1381	1697	1459
42	827	7.215	1340	1153	1506	1295	1685	1449	1781	1532
42.5	847	7.389	1373	1180	1542	1326	1726	1484	1824	1569
43	867	7.565	1405	1209	1579	1358	1767	1520	1867	1606
44	909	7.923	1472	1266	1654	1422	1851	1592	1956	1682
45	951	8.289	1540	1324	1730	1488	1936	1665	2046	1760
46	994	8.664	1609	1384	1808	1555	2024	1740	2139	1839
47	1037	9.047	1681	1445	1888	1624	2113	1817	2233	1921
48	1082	9.438	1753	1508	1970	1694	2205	1896	2330	2004
49	1128	9.837	1827	1572	2053	1766	2298	1976	2428	2088
50	1175	10.245	1903	1637	2138	1839	2393	2058	2529	2175
50.5	1198	10.451	1942	1670	2181	1876	2441	2100	2580	2219
51	1222	10.660	1980	1703	2225	1913	2490	2141	2632	2263
52	1271	11.084	2059	1771	2313	1989	2589	2227	2736	2353
53	1321	11.516	2139	1840	2403	2067	2690	2313	2843	2445
54	1371	11.957	2221	1910	2495	2146	2793	2402	2952	2538
55	1423	12.405	2305	1982	2589	2227	2898	2492	3062	2634
56	1475	12.862	2389	2055	2684	2309	3004	2584	3175	2731
57	1528	13.327	2476	2129	2781	2392	3113	2677	3290	2829
58	1583	13.801	2564	2205	2880	2477	3224	2772	3407	2930

Approximate values

**Please note:** Other diameters with other tolerances than those illustrated can be manufactured on request.

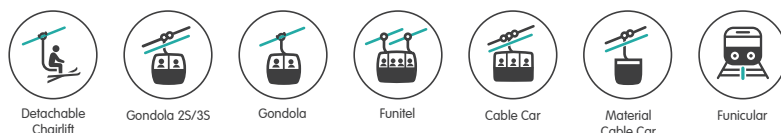
**QUALITY**

ArcelorMittal ROPES operates an internal DNV-Certified Quality Assurance System which complies with the requirements of ISO 9001.

Our production plant in Bourg-en-Bresse is certified OHSAS 18001 for safety management.

Please contact us for a full list of our international standards.

## Applications





## WSR31 compacted wire rope properties

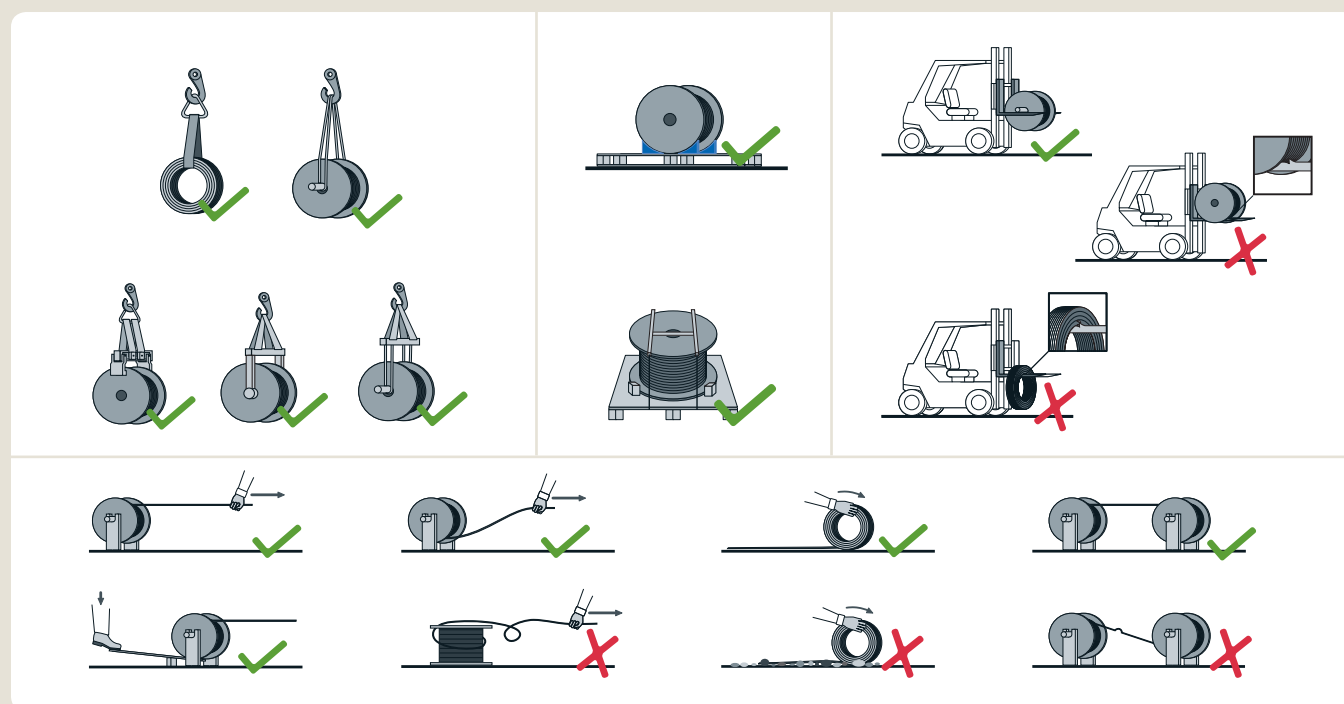
<b>Lubrication</b>	<b>Compaction</b>	<b>High Breaking Resistance</b>	<b>Resistance to Crushing</b>	<b>Bending Fatigue Resistance</b>	<b>Stretch Resistance</b>	<b>Corzal® Wire Coating</b>	<b>Bright Wire</b>	<b>Galvanised Wire Coating</b>	<b>Lang Lay Rope</b>
Extends the life and increases rope performance.	Smoother outer surface with increased strength and reduced wear.	Ropes featuring a high breaking force.	Ropes designed to withstand or resist external forces.	Ropes designed to cope with bending repeatedly under stress.	Thermoplastic sealing of inner core reducing friction.	Corzal® is an eutectic alloy of 95% zinc and 5% aluminium that resists corrosion up to 3 times longer than a pure zinc coating.	Drawn steel, pickled and phosphated and suitable for non corrosive environments.	Zinc coating suitable for corrosive environments.	Increased wear resistance and flexibility.

## 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

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## High performance Ropeway Ropes for the most demanding environments

ArcelorMittal ROPES, 25 Avenue de Lyon, BP 38, F-01002 Bourg-en-Bresse Cedex  
Telephone: +33 4 74 32 81 79 | Fax: +33 4 74 32 81 05 | Email: ropeway.ropes@arcelormittal.com

[www.arcelormittal.com/wireropes](http://www.arcelormittal.com/wireropes)

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ENGINEERING EXCELLENCE