

APPROVAL OF MANUFACTURER CERTIFICATE

Certificate No:
AMMM00000WM
Revision No:
1

This is to certify:

That

DSR Wire Corp.
15 Sandan 1-gil Seo-myeon, Suncheon-si 57927, Jeollanam-do,
Republic of Korea

is an approved manufacturer of
Steel Wire Ropes

in accordance with
DNV GL rules for classification – Ships

and the following particulars:

Product	Steel wire ropes for ship towlines and mooring lines
Rope group	See page 2
Max. diameter	See page 2

Manufacturer approved by this certificate is accepted to deliver according to DNV GL, DNV and GL rules. Materials to be applied to DNV GL classed object shall fulfill the material requirements in the applicable DNV GL class rules.

Issued at **Høvik** on **2019-10-08**

for **DNV GL**

This Certificate is valid until **2022-08-21**.

DNV GL local station: **Mokpo**

Approval Engineer: **Shylate Mahachi**

Hanne Anita Hjerpetjønn
Head of Section



Job Id: **263.11-003451-4**
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Particulars of the approval

Steel wire ropes for ship towlines and mooring lines

Rope group	Rope construction	Core type	Rope grade [N/mm ²]	Max. Diameter [mm]
6x19	6x24	FC, IWRC	1470 to 1960	40
	6x19S			
	6x26WS			
	6x19W			
	6x25F			
6xK19	6xK19S	FC, IWRC	1770 to 2160	46
	6xK26WS			
	6xK25F			
6x36	6x31WS	FC, IWRC	1770 to 2160	76
	6x29F			
	6x36WS			
	6x37			
	6x41WS			
6xK36	6xK31WS	FC, IWRC	1770 to 2160	46
	6xK29F			
	6xK36WS			
	6xK41WS			
8x19	8x19S	FC, IWRC	1770 to 2160	48
	8x26WS			
	8x25F			
8x36	8x31WS	FC, IWRC	1770 to 2160	48
	8x29WS			
	8x36WS			
8xK19	8xK26WS	FC, IWRC	1960 to 2160	48
8xK36	8xK31WS	FC, IWRC	1960 to 2160	48
	8xK29WS			
	8xK36WS			

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Rope group	Rope construction	Core type	Rope grade [N/mm ²]	Max. Diameter [mm]
18x7	18x7	FC, WSC	1770 to 2160	32
	18x19S			
24x7	19x7	WSC	1770 to 2160	34
	19x19S			
24xK7	19xK7	WSC	1770 to 2160	32
	19xK19S			
35(W)x7	35x7	WSC	1770 to 2160	38
	37x7			
	40x7			
35(W)xK7	35(W)xK7	WSC	1770 to 2160	38
	37(W)xK7			
	40(W)xK7			
K4x35N	K4x39S	FC	1960 to 2160	42
	K4x48S			
	K4x36S			

Remarks:

- 1) Wires can either be galvanised or with a bright finish
- 2) Rope group (class) as per ISO 17893 or API 9A.