

Sucker Rod String: Coupling PDS: SRCSCLS Short Name: C40 Effective Date: 23/12/2024 Previous Revision: 02/09/2024

LaserShield[™] Subcoupling

Through extensive R&D Tenaris introduced its new LaserShield[™] coating technology that enhance Sucker Rod Couplings performance.

Dimensions:

Full Size:

Nominal Size	Units	OD	Lc* (min)	Weight
3/4"-5/8"	in	1.625	4.000	1.65 lb
	mm	41.3	101.6	(0.750 kg)
7/8"-5/8"	in	1.811	4.000	2.14 lb
	mm	46.0	101.6	(0.969 kg)
7/8"-3/4"	in	1.811	4.000	2.04 lb
	mm	46.0	101.6	(0.923 kg)
1''-3/4''	in	2.189	4.500	3.25 lb
	mm	55.6	114.3	(1.473 kg)
1"_7/8"	in	2.189	4.500	3.15 lb
1 -//6	mm	55.6	114.3	(1.429 kg)
1 1/8"-7/8"	in	2.375	5.000	4.41 lb
	mm	60.3	127.0	(2.000 kg)
1 1/8"-1"	in	2.375	5.000	4.19 lb
	mm	60.3	127.0	(1.900 kg)

Slim Hole:

Nominal Size	Units	OD	Lc* (min)	Weight
3/4"-5/8"	in	1.500	4.000	1.26 lb
	mm	38.1	101.6	(0.573 kg)
7/8''-5/8''	in	1.626	4.000	1.49 lb
	mm	41.3	101.6	(0.675 kg)
7/8"-3/4"	in	1.626	4.000	1.4 lb
	mm	41.3	101.6	(0.636 kg)
1''-3/4''	in	2.000	4.500	2.41 lb
	mm	50.8	114.3	(1.092 kg)
111 7 /011	in	2.000	4.500	2.31 lb
1 -//8	mm	50.8	114.3	(1.050 kg)
1 1/8"-7/8"	in	2.256	5.000	3.75 lb
	mm	57.3	127.0	(1.700 kg)
1 1/8"-1"	in	2.256	5.000	3.53 lb
	mm	57.3	127.0	(1.600 kg)



OD

Base Material Steel Grades:

LaserShield[™] couplings are manufactured using seamless hot rolled ultraclean alloyed steel pipes, calcium treated to modify inclusions to improve toughness. Pipes are heat treated to obtain the desired microstructure and mechanical properties.

^{*}Other lengths might be available.

Mechanical Properties:

Mechanical properties are listed in the following table.

Grade	Yield Strength (0.2% offset)	Ultimate Tensile Stress	Hardness	
High Strength	110 to 140 kpsi	125 to 155 kpsi	22.26 μρς	
	(758 to 965 MPa)	(862 to 1069 MPa)	52-50 HKC	

<u>Coating Specification:</u> LaserShield [™]

> Coating Type: LW Material: Nickel Base Thickness: 0.007-0.02 in (0.20-0.51 mm) Max. Roughness (Ra): 15 μin (0.381 μm) Hardness: 780 a 1000 HV200

Application:

Due to its distinctive Tribocorrosion characteristics, LW coating reduces the wear on couplings and tubing in deviated wells, in addition its outstanding anti-corrosion properties make LW Coating the best option for medium and highly corrosive wells.

Other Technical Data:

All the dimensions comply with API 11B, except for all the 1 1/8" SH combinations.

Marking:



Non Destructive Testing:

All raw material is carefully inspected using electromagnetic and/or ultrasonic methods to ensure the soundness of the final product.

Labeling:*

≣ Tenaris		Metalmecánica S.A. Ruta 55 Km. 754,1 filla Mercedes (San Luis) Made in Argentina
BOX N°	6000	0006
PRODUCT:		
SPECIFICATION	:	
QTY:	DATE:	
DIAM 1: (in)	DIAM 2: (in)	
CLASS:	TYPE:	
CLIENT:		
SALES ORDER:		
DESTINATION.		NET WEIGHT:

Ordering Information:

When placing an order please attach the following information:

PDS:	SRCSCLS
Coupling Type:	Subcoupling
Nominal dimension:	1''-7/8''
Size:	FullSize
Base Material Grade:	HS
Coating technology:	$LaserShield^{TM}$
Coating Type:	LW

*Image for reference only

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