



INSPECTION CERTIFICATE
CERTIFICAT DE INSPECTIE
(UNI EN 10204 3.1 / ISO 10474 3.1)

Number / Numar:

02-22-16602

Page / Pagina:

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Date / Data: **May 21, 2022**

Silcotub S.A. Plant
93, Mihai Viteazul Blvd.
450131 Zalau, S-Iaj
România
Tel: + 40 260 620720
Fax: + 40 260 661581

Customer / Client: FEON OY		Customer's Order Item / Comanda clientului - Item: 41190	Customer's Reference / Referinta clientului: 2100180	Manufacturer's Works Order N° / Comanda de vanzare: 2280683/002
Manufacture Process / Proces de fabricatie: STRESS RELIEVED TRATAMENT TERMIC DE DETENSIONARE,		Product Type / Tip de produs: COLD DRAWN HOLLOW BARS BARE TUBULARE PENTRU PRELUCRARE TRASE LA RECE		Surface / Suprafata: INT AND EXT BARE INTERIOR SI EXTERIOR NEPROTEJATE
Standard or Specification / Norma sau specificatie: ACC. TO NORM EN 10294-1 SPEC.TN 294-04 VER.0 ACC. TO NORM EN 10294-1 SPEC.TN 294-04 VER.0		Steel Grade / Grad de otel: STEEL HB 470 AR / E 470 ACCIAIO HB 470 AR / E 470		Ends / Capete: SQUARE CUT CAPETE NETEDE (TAIATE DREPT)
Dimensions / Dimensiuni: ø 1.772" O.D. x .295" W.T. 30id, 45.00od, 7.50wt in mm	Schedule / Program:	Length / Lungime: 19.685 ft ÷ 29.528 ft 6000 mm ÷ 9000 mm	Quantity / Cantitate: 86Pcs/buc. 2089'07" ft 11344,9 lb 636.9 mt 5146 kg	Nominal Weight / Greutate nominala: 4.66 lb/ft 6.93 Kg/m

DELIVERY NOTES / NOTE DE LIVRARE

Delivery Notes Note de livrare	Delivery Notes Note de livrare
Job Number / Nr. Comanda internă: 0000031320153 / 000020 Shipping Note / Aviz de expeditie: 0103596120 - 21/05/2022 Address / Adresa: TEOLLISUUSKATU 33	Town / Oras: FI-005 HELSINKI Country / Tara: Finland

TENSILE TEST / TEST DE TRACTIUNE

Heat N° Sarja N°	Sample N° Proba N°	Specimen condition Conditie epruveta				Specimen dimensions Dimensiuni epruvetelor		Test temp Temp de incercare °C	Y.S. Offset 0.2%		U.T.S. Req.		Elongation / Alungire			
		Ls	Sc	Type Tip	Ori	Size Dimensiune	Area Sectiune		Min: 470.00	Max: 999.00	Min: 650.00	Max: 999.00	Lo	Min.	Min.	Obt.
						mm	mm ²	MPa		MPa		5D = 5.65√So	cal.	mm	%	%
720840	W0246/T	B	AM	Ss	L	20.16 x 9.00	193.80	+20	781.00	855.00	5D	80.0	17.0%	19.0%		

AM: As manufactured / Ca fabricat	Ls: Location of sample / Locatia probei	Ori: Orientation / Orientare	U.T.S.: Ultimate Tensile Strength / Rezistenta la rupere
B: Body / Corp	Max: Maximum / Maxim	Req: Required / Cerinta	Y.S.: Yield Strength / Rezistenta la curgere
L: Longitudinal / Longitudinal	Min: Minimum / Minim	Sc: Specimen condition / Starea epruvetei	
Lo: Initial length / Lungime initiala	Obt: Obtained / Obtinut	Ss: Strip specimen / Rectangular	

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CHEMICAL COMPOSITION / COMPOZITIE CHIMICA

		Composition % / Compozitie %												
		X 100						X 1000						
		C	Mn	Si	Cr	V	Cu	Ni	Mo	Ce LF	S	P	Al	
Heat N°	Sample N°	H Max	20	170	40	30	15	--	--	--	57	35	25	40
		Min	17	130	10	--	10	--	--	--	--	20	--	20
Sarja N°	Proba N°	P Max	20	170	40	30	15	--	--	--	--	35	25	40
		Min	17	130	10	--	10	--	--	--	--	20	--	20
720840		H	18	157	35	23	14	17	15	7	55	26	14	28

		Composition % / Compozitie %												
		X 100						X 1000						
		C	Mn	Si	Cr	V	Cu	Ni	Mo	Ce LF	S	P	Al	
Heat N°	Sample N°	H Max	20	170	40	30	15	--	--	--	57	35	25	40
		Min	17	130	10	--	10	--	--	--	--	20	--	20
Sarja N°	Proba N°	P Max	20	170	40	30	15	--	--	--	--	35	25	40
		Min	17	130	10	--	10	--	--	--	--	20	--	20
720840	W0246/T	P	18	151	36	21	13	17	13	7	--	23	13	33

Ce LF: C+Mn/6+(Cr+Mo+V)/5+(Ni+Cu)/15

Max: Maximum / Maxim

P: Product / Produs

H: Heat / Sarja

Min: Minimum / Minim

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SUPPLEMENTARY INFORMATION / INFORMATIE SUPLIMENTARA

STANDARD EDITIONS EDITIILE NORMELOR	
Standard: EN 10294-1 Year: 2017	Norma: EN 10294-1 An: 2017

Supplementary Information Informatie Suplimentara																	
<table border="0"> <tr> <td>Heat</td> <td>Pz</td> <td>Mt</td> <td>Kg</td> </tr> <tr> <td>720840-000</td> <td>86</td> <td>636,90</td> <td>5146</td> </tr> </table> <p>Tube dimens. (Outside diameter x Wall Thick.) : 45,75 x 08,90 Minimum Specified Wall Thickness: 8,20</p>	Heat	Pz	Mt	Kg	720840-000	86	636,90	5146	<table border="0"> <tr> <td>Sarja</td> <td>Pz</td> <td>Mt</td> <td>Kg</td> </tr> <tr> <td>720840-000</td> <td>86</td> <td>636,90</td> <td>5146</td> </tr> </table> <p>Dim. di fabbricazione (Diam esterno x Spessore): 45,75 x 08,90 Minimum Specified Wall Thickness: 8,20</p>	Sarja	Pz	Mt	Kg	720840-000	86	636,90	5146
Heat	Pz	Mt	Kg														
720840-000	86	636,90	5146														
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Supplementary Information Informatie Suplimentara	
<p>NONDESTRUCTIVE TEST (EDDY CURRENT) ACC. TO ISO 10893-1/ISO 10893-2 E2H DRILL HOLE 1.20MM: WITHOUT OBJECTIONS 100% PMI CONTROL HAS BEEN CARRIED OUT WITH SATISFACTORY RESULTS. ALL THE PIPES HAVE BEEN INSPECTED BY EDDY CURRENT INSTEAD OF HYDROSTATIC TEST WITH SATISFACTORY RESULTS HEAT TREATMENT: STRESS RELIEVING SEAMLESS HOT FINISHED PIPES VISUAL AND DIMENSIONAL CONTROL HAS BEEN CARRIED OUT WITH SATISFACTORY RESULT STEEL IS FULLY KILLED AND PRODUCED BY ELECTRIC FURNACE TO A FINE GRAIN PRACTICE . THE PRODUCT SUPPLIED IS IN COMPLIANCE WITH THE REQUIREMENTS OF THE ORDER. Tenaris IT identification number for MTC: 593 v\R</p>	<p>CONTROL NEDISTRUCTIV (EDDY CURRENT) CONFORM ISO 10893-1/ISO 10893-2 E2H GAURA STRAPUNSA DE 1.20MM: FARA OBIECTII CONTROLUL PMI A FOST FACUT PE 100% DIN TEVI CU REZULTATE SATISFACATOAR TOATE TEVILE AU FOST CONTROLATE EDDY CURRENT IN LOC DE TESTUL HYDROSTATIC TRATAMENT TERMIC: DETENSIONARE TEVI FARA SUDURA LAMINATE LA CALD CONTROLUL VIZUAL DIMENSIONAL S-A REALIZAT CU REZULTATE SATISFACATOARE OTELUL ESTE PRODUS IN CUPTOR ELECTRIC COMPLET CALMAT CONFORM UNEI PRACTICI DE OBTINERE A UNUI GRAUNTE FIN PRODUSUL LIVRAT ESTE IN CONFORMITATE CU CERINTELE COMENZII Tenaris IT numărul de identificare pentru MTC: 593 v\R</p>

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MARKING / MARCAJ

Marking Marcaj	
<p>STENCILING MARCAJ CONTINUU:TENARIS SL_TN 294-04_HB470AR __ 45.00_x_30_EN 10 294-1_E470_HEAT NO: _ 2280683 /_ 002_ _2100180_41190_ _1 INEL_LA 15 CM DE LA AMBELE CAPETE DE CULOARE: _____ VERDE _____ RAL 6017 ==>> ETICHETE STANDARD <<== C:228 0683/002_ _2100180_41190_</p>	<p>PICTURA MARCAJ CONTINUU:TENARIS SL_TN 294-04_HB470AR __ 45.00_x_30_EN 10 294-1_E470_HEAT NO: _ 2280683 /_ 002_ _2100180_41190_ _1 INEL_LA 15 CM DE LA AMBELE CAPETE DE CULOARE: _____ VERDE _____ RAL 6017 ==>> ETICHETE STANDARD <<== C:228 0683/002_ _2100180_41190_</p>

The product certified herein has been manufactured, sampled, tested and inspected in accordance with the stated specifications and has been found to meet the requirements.
 This certificate is not a declaration of origin nor may it be used as a declaration of origin.

Produsul certificat aici a fost fabricat, esantionat, testat si inspectat in conformitate cu specificatiile mentionate si s-a determinat ca indeplineste cerintele.
 Acest certificat nu este o declaratie de origine si nici nu poate fi utilizat ca si o declaratie de origine.

CUSTOMER . THIRD PARTY		TENARIS QUALITY DEPARTMENT SIGNATURE	
INSPECTION COMPANY FIRMA TERTA DE INSPECTII			
	QUALITY CERTIFICATION DEPT. DEPARTAMENT CERTIFICARE CALITATE PUSCAS Daniela	QUALITY SENIOR DIRECTOR DIRECTOR SENIOR CALITATE CUBLESAN Rares	

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