

COMPANY WITH MANAGEMENT SYSTEM CERTIFIED BY DNV GL = ISO 9001 = = ISO 14001 =	 METALFAR PRODOTTI INDUSTRIALI SPA 23861 CESANA BRIANZA (LC) - ITALY VIA G. PARINI, 28 PHONE + 39 031 655441 - FAX +39 031 655149 certificate@metalfaritaly.com	COMPANY WITH MANAGEMENT SYSTEM CERTIFIED BY DNV GL = ISO 9001 = = ISO 14001 =
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INSPECTION CERTIFICATE EN 10204:2004 / 3.1		Nr. 2018-C_MFF-03191	Data / Dated 24.07.2018
SNAPP STAINLESS & NICKEL ALLOY PIPING PRODUCTS 10225 Mula Road, Ste 100 77477 STAFFORD, TX	US	Ordine / PO 4001627 Item 015 DDT / Delivery note 2018-3E301-0003275 Packing List 2018-3E401-0003148 Fattura / Invoice 2018-3E401-0003148 Ns. rif. / Our ref. 2018-3E201-0001612-0015	

Dest. SNAPP STAINLESS & NICKEL ALLOY PIPING PRODUCTS 10225 Mula Rd, Ste 100 77477 STAFFORD, TEXAS	US
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Cod. colata Heat Code	Nr. colata Heat Nr	Quantità Quantity	Descrizione Description
	430678	344,00	S/O 150 RF 1.1/2" F304/L SO4L01015

Mat. in acc. a / Mat. in acc. to
 ASTM A 182/A 182M -18 , ASME SA 182/SA 182M-17 ASME CODE SECT. II, PART A, ED. 2017
 ASTM A182 F304/F304L
 NACE MR-0175/2015 ISO 15156-1:2015
 NACE MR-0103/2015 ISO 17495-1:2016
 Q.A.S. IN ACCORD WITH PRESS. EQUIP. M. DIRECT. 2014/68/EU (PED) ANNEX I, PARAGRAPH 4.3
 CERT. 4667-2014-CE-ITA-DNV GL

Ann. mat. / Mat. remarks
 P.M.I. 100% PERFORMED AND SATISFACTORY
 INTERGRANULAR CORROSION TEST IN ACCORDANCE WITH ASTM A262 PRACTICE "E": PASSED

Element / Elements	C	Si	Mn	S	P	Cr	Ni	Mo	Ti	Cu	V	Nb	N
LADLE ANALYSIS	0,030	0,360	1,500	0,020	0,036	18,000	8,100	0,330	0,000	0,000	0,000	0,000	0,095
LADLE ANALYSIS	0,000								--	--	--	--	20,609

Provetta Test specimen	Forma Shape	*C	Snervamento > 0,2% Yield Strength > 0,2%	Snervamento > 1,0% Yield Strength > 1,0%	Rottura Tensile	Allungamento Elongation	Contrazione Reduction of area
126,60	50,80	1	20	329,0	623,0	58,0	77,0

DUREZZA / HARDNESS	RESILIENZA / IMPACT TEST
HBW 168,0 ; 177,0	Tipo/Type KV
	Provetta / Test Specimen 10x10 mm
	*C 20
	1-Joule 237
	2-Joule 245
	3-Joule 249
	Media/Average 243,7

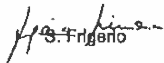

Tratt. Term. / Heat treatment	SOLUTION TREAT AT 1050 °C - HOLDING TIME 1,30h QUENCHED IN WATER	ELECTRIC FURNACE
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Dim in acc. a / Dim. acc. to	ASME/ANSI B16.5 -2017
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Finitura / Roughness	ASME/ANSI B46.1 -2009 125-250 µm AARI
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Marcatura in acc. Marking in acc. to	MSS SP25 Ed. 2013	Vis. & Dim.	SATISFACTORY	Origine Origin of Steel	SPAIN
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Note / Notes
 100% MANUFACTURED IN ITALY
 MANUFACTURING IN ACCORDANCE WITH ORDER AND SPECIFICATION
 MATERIAL WHEN SHIPPED IS FREE FROM CONTAMINATION BY MERCURY, RADIUM, ALPHA SOURCE AND LOW MELTING ELEMENTS

UFFICIO CONTROLLO QUALITA' QUALITY CONTROL DEPARTMENT 	ENTE UFFICIALE DI COLLAUDO INSPECTION AUTHORITY	MARCHIO PRODUZIONE MANUFACTURER'S SYMBOL 
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COMPANY WITH MANAGEMENT SYSTEM CERTIFIED BY DNV GL = ISO 9001 = = ISO 14001 =		METALFAR PRODOTTI INDUSTRIALI SPA 23861 GESANA BRIANZA (LC) - ITALY VIA G. PARINI, 28 PHONE +39 031 655441 - FAX +39 031 655149 certificate@metalfaritaly.com	A01
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INSPECTION CERTIFICATE EN 10204:2004 / 3.1 ^{A07}		Nr ^{A03} 2018-C MFF-03191	Data / Dated ^{A02} 24.07.2018
SNAPP STAINLESS & NICKEL ALLOY PIPING PRODUCTS 10225 Mula Road, Ste 100 77477 STAFFORD, TX	US	Ordine / PO 4001627 Item 015 DDT / Delivery note 2018-3E301-0003275 Packing List 2018-3E401-0003148 Fattura / Invoice 2018-3E401-0003148 Ns. rif. / Our ref. 2018-3E201-0001612-0015	A06

Dest. SNAPP STAINLESS & NICKEL ALLOY PIPING PRODUCTS 10225 Mula Rd, Ste 100 77477 STAFFORD, TEXAS	US	
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Cod. colata ¹⁰⁰⁷ Heat Code	Nr. colata ¹⁰⁰⁷ Heat Nr	Quantità ¹⁰⁰³ Quantity	Descrizione ¹⁰⁰¹⁻⁽⁰⁰⁰⁻⁰¹¹⁾ Description
	430678	317,00	S/O 150 RF 1.1/2" F304/L SO4L01015

Mat. in acc. a / Mat. in acc. to ^{D02} ASTM A 182/A 182M -18 , ASME SA 182/SA 182M-17 ASME CODE SECT. II, PART A, ED. 2017
 ASTM A182 F304/F304L
 NACE MR-0175/2015 ISO 15156-1:2015
 NACE MR-0103/2015 ISO 17495-1:2016
 Q.A.S. IN ACCORD WITH PRESS.EQUIP.M.DIRECT.2014/68/EU(PED) ANNEX I, PARAGRAPH 4.3
 CERT.4687-2014-CE-ITA-DNV GL

Ann. mat. / Mat. remarks ^{D02} P.M.I.100% PERFORMED AND SATISFACTORY
 INTERGRANULAR CORROSION TEST IN ACCORDANCE WITH ASTM A262 PRACTICE "E":PASSED

Element / Elements ^(C71-C92)	C	SI	Mn	S	P	Cr	Ni	Mo	Ti	Cu	V	Nb	N
LADLE ANALYSIS	0,030	0,360	1,500	0,020	0,036	18,000	8,100	0,330	0,000	0,000	0,000	0,000	0,095
LADLE ANALYSIS	0,000								--	--	--	--	20,609

Prova / Test specimen	Forma ^{C10} Shape	*C ⁰³	Snervamento > 0,2% ^{C11} Yield Strength > 0,2%	Snervamento > 1,0% ^{C11} Yield Strength > 1,0%	Rottura ^{C12} Tensile	Allungamento ^{C13} Elongation	Contrazione ^{C15} Reduction of area
Soz/Soct mm2 Gauge L.mm	1=O - 2=□		MPa	MPa	MPa	%	%
126,60 50,80	1	20	329,0	--	623,0	58,0	77,0

DUREZZA / HARDNESS ^{C17}	RESILIENZA / IMPACT TEST
HBW	Tipo/Type ^{C40}
168,0 ; 177,0	KV
	Prova / Test Specimen
	10x10 mm
	*C ⁰³
	20
	1-Joule ^{C42}
	237
	2-Joule ^{C42}
	245
	3-Joule ^{C42}
	249
	Media/Average ^{C43}
	243,7

Tratt. Term. / Heat treatment ^{C70}	SOLUTION TREAT AT 1050 °C - HOLDING TIME 1,30h	ELECTRIC FURNACE
	QUENCHED IN WATER	

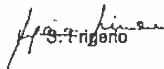

Dim in acc. a / Dim. acc. to ^{H14}	ASME/ANSI B16.5 -2017
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Finitura / Roughness	ASME/ANSI B46.1 -2009 125-250 µm AARH
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Marcatura in acc. ^{H06} Marking in acc. to	MSS SP25 Ed. 2013	Vis. & Dim.	SATISFACTORY	Origine Origin of Steel	SPAIN
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Note / Notes 100% MANUFACTURED IN ITALY
 MANUFACTURING IN ACCORDANCE WITH ORDER AND SPECIFICATION

MATERIAL WHEN SHIPPED IS FREE FROM CONTAMINATION BY MERCURY, RADIUM, ALPHA SOURCE AND LOW MELTING ELEMENTS

UFFICIO CONTROLLO QUALITA' ^{A04} QUALITY CONTROL DEPARTMENT 	ENTE UFFICIALE DI COLLAUDO ^{Z03} INSPECTION AUTHORITY	MARCHIO PRODUZIONE ^{A04} MANUFACTURER'S SYMBOL 
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