

13/38937

3" 600# WNRFL FLANGE

P.O. 134728



METALFAR
PRODOTTI INDUSTRIALI S.P.A.

STAMPAGGIO A CALDO DI ACCIAI COMUNI - LEGATI E INOSSIDABILI

SEDE AMMINISTRATIVA E STABILIMENTO:

23861 CESANA BRIANZA (LC) - Italy
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COMPANY WITH
QUALITY SYSTEM
CERTIFIED BY DNV
= ISO 9001 =

CERTIFICATO DI COLLAUDO SECONDO EN 10204 - 3.1 INSPECTION CERTIFICATE

Certif. N. 23 DDT / Del Note N. 20	Del/Dated 02.01.2014 Del/Dated 02.01.2014	Fattura / Invoice N. 3 Ns.Ord. / Our ref. N. 0	Del/Dated 02.01.2014 Del/Dated
NOV WILSON CANADA ULC		Dest.: NOV WILSON CANADA ULC	
1800, 635 - 8TH Avenue S.W. T2P 3M3 CALGARY, ALBERTA CA		2603 - 76 Avenue T6P 1P6 EDMONTON, ALBERTA CA	

SALA PROVE E ANALISI MATERIALI / MATERIAL TEST DEPARTMENT

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COD. COL. HEAT CODE	COLATA HEAT	POS. ITEM	VS. ORDINE YOUR REFERENCE	Q.TA' Q.TY	DESCRIZIONE DESCRIPTION	DIM. IN ACC. A DIM. ACCORDANCE TO ASME/ANSI B16.5 - 2013													VISIVO E DIMENS. VIS. & DIMENS. SATISFACTORY			
	13/39021	059	3147865-OR-2100	150,00	S/W 150 RF 1.1/2" 80 A105N																	
MATERIALE / MATERIAL ASTM A105 (LADLE)			C%	Si%	Mn%	S%	P%	Cr%	Ni%	Mo%	Ti%	Cu%	V%	Nb%	N%	Al%	C.E.%	B %				
			0,180	0,210	0,950	0,010	0,007	0,130	0,060	0,020	0,016	0,140	0,002	0,001	0,009	0,025	0,382	0,000				
PROVETTA / TEST SPECIMEN SEZ. mm2 SECT. mm2	LUNG. mm LENGTH mm	FORMA SHAPE 1=O 2=□	SNERVAMENTO YIELD POINT N/mm2 >=0,2%	ROTTURA TENSILE STRENGTH N/mm2 >=	ALLUNGAMENTO ELONGATION %>=	CONTRAZIONE REDUCTION OF AREA %>=	DUREZZA HARDNESS HBW	RESILIENZA / IMPACT TEST - JOULE/cm2				SNERVAMENTO YIELD POINT N/mm2 >=1,0%			No. Rif. OUR REF.							
126,60	50,80	1	351,0	518,0	31,0	59,0	152,0 - 156,0	TIPO / TYPE 10x10mm KV				°C	1	2	3	80	0,0					
MATERIALE IN ACCORDO A / MATERIAL IN ACC. TO ASTM/ASME A 105/SA 105 M - 13 ASME CODE SECT. II, PART A, ED. 2013 CSA CAN3 Z245.12-09 GRADE 290 CAT.I SOUR SERVICE							TRATTAMENTO TERMICO / HEAT TREATMENT NORMALIZED AT 920 C - COOLED IN STILL AIR							FORNO / FURNACE ELECTRIC FURNACE				ORIGINE / ORIGIN OF STEEL EUROPEAN UNION				

COD. COL.	COLATA	POS.	VS. ORDINE	Q.TA'		DESCRIZIONE	DIM. IN ACC. A											VISIVO E DIMENS.	
HEAT CODE	HEAT	ITEM	YOUR REFERENCE	Q.TY		DESCRIPTION	DIM. ACCORDANCE TO											VIS. & DIMENS.	
	13/38937	093	3147865-OR-2100	33,00		W/N 600 RF 3" STD A105N	ASME/ANSI B16.5 -2013											SATISFACTORY	
MATERIALE / MATERIAL			C%	Si%	Mn%	S%	P%	Cr%	Ni%	Mo%	Ti%	Cu%	V%	Nb%	N%	Al%	C.E.%	B %	
ASTM A105 (LADLE)			0,180	0,230	0,980	0,009	0,010	0,110	0,090	0,020	0,015	0,180	0,002	0,001	0,009	0,025	0,388	0,000	
PROVETTA / TEST SPECIMEN	SEZ. mm2	LUNG. mm	FORMA	SNERVAMENTO	ROTTURA	ALLUNGAMENTO	CONTRAZIONE	DUREZZA				RESILIENZA / IMPACT TEST - JOULE/cm2					SNERVAMENTO		
SECT. mm2	LENGHT mm	1=O 2=□	YIELD POINT	TENSILE STRENGTH	ELONGATION	REDUCTION OF AREA	HARDNESS	HBW				TIPO / TYPE 10x10mm					YIELD POINT		
			N/mm2 >=0,2%	N/mm2 >=	%>=	%>=						KV					N/mm2 >=1,0%		
126,60	50,80	1	330,0	505,0	32,0	60,0	154,0 - 158,0				20 86 92 90					0,0			
MATERIALE IN ACCORDO A / MATERIAL IN ACC. TO							TRATTAMENTO TERMICO / HEAT TREATMENT							FORNO / FURNACE				ORIGINE / ORIGIN OF STEEL	
ASTM/ASME A 105/SA 105 M - 13 ASME CODE SECT. II, PART A, ED. 2013							NORMALIZED AT 920 C - COOLED IN STILL AIR							ELECTRIC FURNACE				EUROPEAN UNION	
CSA CAN3 Z245.12-09 GRADE 290 CAT.I SOUR SERVICE																			

NOTE 100% MANUFACTURED IN ITALY
NOTES MANUFACTURING IN ACCORDANCE WITH ORDER AND SPECIFICATION
MATERIAL IN ACCORDANCE WITH NACE MR-0175/2009 ISO 15156-2009
MATERIAL IN ACCORDANCE WITH NACE MR-0103/2012

UFFICIO CONTROLLO QUALITA'
QUALITY CONTROL DEPARTEMENT

ENTE UFFICIALE DI COLLAUDO
INSPECTION AUTHORITY

MARCHIO PRODUZIONE
MANUFACTURER'S SYMBOL

[Signature]

