



The products were manufactured in controlled conditions of certified quality, environment and safety management systems

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Manufacturer

CENTRAVIS PRODUCTION UKRAINE PJSC

Address

56, Trubnikov Avenue, Nikopol, Dnipropetrovsk Region, UKRAINE,
53201 tel/fax: +38 (0566) 69 11 60, e-mail: info@centravis.com

CUSTOMER REFERENCES

Country of destination	The USA
Address	2330 Holmes Road, HOUSTON, TEXAS 77051-1098
Consignee	
Country of destination	The USA
Address	2330 Holmes Road, HOUSTON, TEXAS 77051-1098

Customer order	325242
Production order	1050011768
Code of product	CI026670391F702700

PRODUCT DESCRIPTION

Seamless stainless tubes	Cold finished	pickled and passivated	Plain ends, square cut, deburred
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Steel grade	TP316 / S31600 / TP316L / S31603
Steel type	Austenitic
Specification	ASTM A312-21/ASME BPVC Section IIA SA-312ed 2021/ASTM A376-19/ASME BPVC Section IIA SA-376ed 2021
Additional requirements	standard

Heat #	Steel manufacturer
A11044	PRJSC "DNIPROSPETSSTAL"

Chemical composition, %

Heat #	Melting process	State	C	Ni	Cr	Mn	Mo	P	S	Si
			max 0.03	11 - 14	16 - 18	max 2	2 - 3	max 0.045	max 0.03	max 0.75
A11044	EAF + AOD	Ladle	0,024	11,27	16,76	1,04	2,07	0,04	0,013	0,54
A11044	-	Product	0,02	11,1	16,91	1,11	2	0,042	0,01	0,54

Lot #	Bundle #	Heat #	Dimensions , mm	pieces	ft	lb
397702	397702	A11044	NPS 3/4 x sch 80 x 20' - 24'	92	2182	3250
TOTAL				92	2182	3250
Theoretical mass				2,237 kg/m		

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Marking	CENTRAVIS ASTM A312/ASME SA312/ASTM A376/ASME SA376 TP316/S31600/TP316L/S31603 standard WT/standard Pickled and passivated SML CF NPS 3/4 x sch 80 x 20' - 24' промаркировать вид испытаний ET UT NH Heat No. (прим: Вставить номер плавки). Lot No (прим: Вставить номер партии). Bundle №(прим: Вставить номер пакета). UKRAINE
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TEST RESULTS					
Test direction - Longitudinal at temperature 68°F					
Lot #	Specimen #	Tensile strength, Rm	Proof strength, Rp0,2	Elongation in 50 mm, A, %	HRB
		min 74675	min 29725	min 35	max 100
397702	1	91930	50315	57	84
397702	2	--	--	--	87

Lot #	Test direction - Longitudinal at temperature				
	Specimen #				

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Test type	Requirements	TEST RESULTS
100% Visual control		OK
100% Dimensional control	OD(min 0.800 ... max 0.400); WT(min 0.488 ... max 0.782); WT/standard	OK
100% PMI		OK
Flattening	ASTM A999-2018	OK
100% Ultrasonic test	ASTM E213:2014, 12,50%, УЗК1\УЗК2; 0.100; 12.000	OK
100% Eddy Current test	ASTM E 426-16, 1.4 мм; 1	OK
Intergranular Corrosion Test	ASTM A262-2015(2021)Pract. E; MIL-P-24691/3	OK
Straightness	1mm/1m	OK

Hardness values do not exceed 22 HRC acc to NACE MR0175-2009; NACE MR0103-2012; ISO 15156; NACE MR0175/ISO 15156-2015; ANSI/NACE/MR0103 17945:2015

The tubes were solution annealed at T min= 1904°F holding time min 2 Min/mm WT, then rapid cooled in water

The tubes when shipped are free from contamination by Mercury, Radium, Alpha Source, radioactive and low melting elements

No weld repair

CENTRAVIS PRODUCTION UKRAINE PJSC declares that the product was manufactured, sampled, tested, and inspected in accordance with the prescribed specification, the supplementary requirements, and any other requirements designated in the purchase order and has been found to meet such requirements.

Country of Manufacture

- Ukraine

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Inspector's Stamp
Date

07/11/2022



☐ M. Balykhina