


C291179

PrJSC DNIPROSPETSSTAL, YUZHNOYE SHOSSE 81, 69008 ZAPOROZHYE, UKRAINE

	CUSTOMER DSS INTERNATIONAL SA Switzerland	PRODUCT DESCRIPTION Bars and rods of corrosion-resistant (stainless) steel hot rolled, peeled on Landgraf line. Прутки из коррозионностойких (нержавеющих) сталей горячекатаные, обточенные на линии Ландграф. STEEL MAKING PROCESS: EAF+AOD СПОСОБ ВЫПЛАВКИ: Электродуговая печь+АКР Round 5.000in/127.00 mm L=17.148ft/5.230 m L=16.885ft/5.150 m L=17.1' 5ft/5.220 m Grade: 316/316L/1.4401/1.4404	INSPECTION CERTIFICATE EN10204/3.1 Nr. 368570 PLANT ORDER № 8014901723
			QUANTITY: (number of pcs)
			Delivery condition solution annealed :1900°F(1040 °C)water 30minutes термообработка:закалка в воду

ANALYSIS, %	C	Si	Mn	P	S	Cr	Ni	Mo	Al	Cu	V	W	Ti	Co	Nb	N	Sn	B
REQUIRED	<.030	<1.00	1.20-2.00	<.040	.015-.030	16.50-18.00	10.00-13.00	2.00-2.50	<.10	<.40	<.10	<.20	<.15	<.40	<.20	<.10		
CAST № A09715	.020	.47	1.38	.040	.022	17.08	10.19	2.07	.063	.29	.06	.04	.005	.17	.01	.028	.009	.0021

DIN EN 10002-1, ASTM A370-09

MECHANICAL PROPERTIES	Yield Strength, (N/mm ²) R0.2% R 1.0%		Tensile Strength, (N/mm ²) Rm	Elongation		Reduction of area, Z % L	Brinell Hardness HB	Impact strength, KV, J	
	L	Q		A5 % L	In 2 inches (50mm) or 4D, min, % L			L	Q
REQUIRED	205	240	515-700	40 -	40	50	140-217	100	-
EFFECTIVE	299 302	337 344	555 562	60 - 60 -	58 58	79 79	163 163	205 205 205 200 200 200	- -


TECHNICAL REQUIREMENTS:
 Macrostructure – GOOD
 GRAIN SIZE : 5 to ASTM E 112-96(2004)
 Nonmetallic inclusions ASTM E 45-05 (Method A)

A	B	C	D
thin	thick	thin	thick
2.5	2.0	2.0	1.5
0.0	0.0	0.0	0.0
1.0	1.0	1.0	1.0

 ICC-ASTM A262-08 (practice E)-test: O.K.
 Dimension/surface defects test, anti-mixing test – OK
 We acknowledge that the delivered products conform to the requirements of the order
 Ratio of reduction-22.3:1

Mechanical properties tested in state of delivery

US - testing	yes	Results: ASTM A388/A388M-FBH1/8";EN 10308 type 1a;class 3:OK
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Date: 12.04.2021
 Manager of quality assurance department - V. Kapaieva
 Signed: 
 Zaporozhye
 Melted and Produced in Ukraine.
 MELTED and MANUFACTURED
 PrJSC "Dniprospejstal"
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Radiation free; mercury free. No Weld or Weld repair.

ANS