


C294946

**PrJSC DNIPROSPETSSTAL, YUZHNOYE SHOSSE 81, 69008 ZAPOROZHYE, UKRAINE**

	<b>CUSTOMER</b> <b>DSS INTERNATIONAL</b> <b>SA Switzerland</b>	<b>PRODUCT DESCRIPTION</b> Bars and rods of corrosion-resistant (stainless) steel hot rolled, peeled on Landgraf line. Прутки из коррозионностойких (нержавеющих) сталей горячекатаные, обточенные на линии Ландграф. <b>STEEL MAKING PROCESS: EAF+AOD</b> <b>СПОСОБ ВЫПЛАВКИ: Электродуговая печь+АКР</b> Round 6.25in/158.75 mm L=18.426ft/5.62 m, L=18.593ft/5.61 m, L=13.377ft/4.08 m <b>Grade: 316/316L/1.4401/1.4404</b>	<b>Sheets: 1</b> <b>Sheet: 1</b> <b>INSPECTION CERTIFICATE EN10204/3.1 Nr. 369930</b> PLANT ORDER № 8014902613
			<b>QUANTITY:</b> (number of pcs) <b>1bund Q-4017 lb/1822 kg</b> <b>1bund Q-2002 lb/908 kg</b> <b>1bund Q-1459 lb/662 kg</b>

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 № A09881	.018	.44	1.34	.039	.024	16.82	10.21	2.07	.066	.28	.05	.05	.005	.13	.012	.032	.0087	.0022

DIN EN 10002-1, ASTM A370-09										
MECHANICAL PROPERTIES	Yield Strength, (N/mm <sup>2</sup> ) R0.2% R 1.0%		Tensile Strength, Rm, (N/mm <sup>2</sup> )	Elongation		Reduction of area, Z, % L	Brinell Hardness HB	Impact strength, KV, J		
	L	Q		A <sub>5</sub> , % L	In 2 inches (50mm) or 4D <sub>min</sub> , % L			L	Q	
REQUIRED	205	240	515-700	40	-	40	50	140-217	100	-
EFFECTIVE	280	310	567	60	-	58	73	167	217	217
	286	316	571	60	-	58	75	167	223	223

**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   thin   thick   thin   thick  
 3.0   2.0   2.0   1.0   0.0   0.0   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

US - testing	yes	Results: ASTM A388/A388M-FBHI/8";EN 10308 type Ia, class 3:OK	Date 23.05.2021 Manager of quality assurance department - V. Kapaieva Zaporozhye Signed
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Radiation free; mercury free. No Weld or Weld repair.

Melted and Produced in Ukraine.  
 MELTED and MANUFACTURED  
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