

204658

PrJSC DNIPROSPETSSTAL, YUZHNOYE SHOSSE 81, 69008 ZAPOROZHYE, UKRAINE

Contract No.: 20002
 TECHN. PROTOCOL № 390-11 SPEC. № 6956/PO42393-ED
 DIN EN 10088-3-05, DIN EN 10272-08, AD 2000-Merkblatt W2, AD 2000-Merkblatt W10, ASTM A182/A182M-10, ASME SA-182/SA-182M-10, ASTM A276-10, ASTM A314-08, ASTM A479/A479M-10, ASME SA-479/SA-479M-10, ASTM A484/A484M-10, AMS-QQ-S-763B-06 Cond. A, AMS 5648K-07, AMS 5653F-07, ASTM A193/A193M-10GR B8M, CL.1, ASME SA-193/SA-193M-10 GR B8, CL.1, ASTM A320/A320M-08 GR B8M, CL.1, ASME SA-320/SA-320M-10 GR B8, CL.1, NACE MR 0175-03, NACE MR 0103-10

INSPECTION CERTIFICATE EN10204/3.1 Nr. 328754
 PLANT ORDER № 8014906956

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, обработанные на линии Ландграф.
STEEL MAKING PROCESS: EAF+AOD
СПОСОБ ВЫПУСКА: электродуговая печь+АКР
 Round 5.250m/133.35 mm L=5.60m/18.230ft L=5.640m/18.492ft L=5.640m/18.492ft
Grade: 316/316L/1.4401/1.4404

QUANTITY:
 (number of pcs) 1bund Q-4171 lb/1892 kg
 1bund Q-1411 lb/640 kg
 1bund Q-1411 lb/640 kg

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 № A05401	.018	.52	1.28	.040	.024	17.01	10.27	2.06	.071	.34	.06	.04	.01	.15	.011	.034	.010	.0023

DIN EN 10002-1, ASTM A370-09										TECHNICAL REQUIREMENTS:																			
MECHANICAL PROPERTIES	Yield Strength, (N/mm²) R _{0.2%} R _{1.0%}		Tensile Strength, R _m , (N/mm²)	Elongation		Reduction of area, Z %	Brinell Hardness HB	Impact strength, KV, J		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																			
	A, %	In 2 inches (50mm) or 4D, min. %		L	L			L	L											L	L								
REQUIRED	205	240	515-690	40	40	50	140-223	100	-																				
EFFECTIVE	290 297	313 315	568 571	60 60	59 59	79 78	167 167	205 201	205 201																				

Mechanical properties tested in state of delivery

US - testing Results: ASME SA-388/SA-388M-10, ASTM A 388/A 388M-09)-FBIII/B"; EN 10308 type Ia; class 3:OK

Radiation free; mercury free. No Weld or Weld repair.

Manufacturer: PrJSC DNIPROSPETSSTAL
 Date: 26.12.17 Manager of quality assurance department - V. Kapaieva
 Signed: 
 Zaporozhye
 Made in Ukraine.

July 19/19

ANS