

C294939

PrJSC DNIPROSPETSSTAL, YUZHNOYE SHOSSE 81, 69008 ZAPOROZHYE, UKRAINE

1202

Contract No.: 20002
 TECHN.PROTOCOL № 390-11 SPEC.№ 2013/PO50775
 DIN EN 10088-3-05,DIN EN 10272-08,AD2000-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,CL1(EXC PAR 7.2); ASME SA-193/SA-193M-10 GR B8,CL 1 (EXC PAR 7.3);NACE MR 0175-03;NACE MR 0103-10

INSPECTION CERTIFICATE EN10204/3.1 Nr. 369572
 PLANT ORDER № 8014902013



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 5.00in/127.00 mm L=18.590ft/5.67 m
Grade: 316/316L/1.4401/1.4404

QUANTITY:
 (number of pcs)
 1bund Q-2571 lb/1166 kg
 1bund Q-1265 lb/574 kg
 1bund Q-1204 lb/546 kg

Delivery condition
 solution annealed :1900^oF(1040^oC)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 № A09834	.020	.52	1.31	.038	.024	17.05	10.30	2.13	.078	.33	.07	.04	.007	.15	.01	.032	.019	.0022

DIN EN 10002-1,ASTM A370-09

MECHANICAL PROPERTIES	Yield Strength, (N/mm ²) R0.2% R 1.0%		Tensile Strength, Rm, (N/mm ²)	Elongation		Reducti on of area, Z % L	Brinell Hardness HB	Impact strength, KV, J		
	L	Q		As % L Q	In 2 inches (50mm) or 4D,min,% L			L	Q	
REQUIRED	205	240	515-700	40	-	40	50	140-217	100	-
EFFECTIVE	275	304	580	61	-	59	77	170	225 225 225	-
	280	310	585	60	-	59	78	170	230 230 230	-

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
 2.0 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

Mechanical properties tested in state of delivery

US - testing yes Results: ASTM A388/A388M-FBH1/8";EN 10308 type 1a;class 3:OK

Date: 12.05.2021 **Manager of quality assurance**
 department - V. Kapaieva Signed:

Zaporozhye
 Melted and Produced in Ukraine.
 MELTED and MANUFACTURED
 PrJSC " Dniprospetsstal"
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 http://www.dss-ua.com

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

ANS