



C294939

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	<p>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</p>	<p>INSPECTION CERTIFICATE EN10204/3.1 Nr. 369572 PLANT ORDER № 8014902013</p>
	<p>CUSTOMER DSS INTERNATIONAL SA Switzerland</p>	<p>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</p>
<p>QUANTITY: (number of pcs)</p>		<p>1bund Q-2571 lb/1166 kg 1bund Q-1265 lb/574 kg 1bund Q-1204 lb/546 kg</p>
<p>Delivery condition solution annealed :1900⁰F(1040⁰C)water 30minutes термообработка:закалка в воду</p>		

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		Reduction of area, Z % L	Brinell Hardness HB	Impact strength, KV, J	
	L	Q		A5 %	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
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Radiation free; mercury free. No Weld or Weld repair.



ANS