


C315459

PrJSC DNIPROSPETSSTAL, YUZHNOYE SHOSSE 81, 69008 ZAPOROZHYE, UKRAINE

	Contract No.: 20002 TECHN.PROTOCOL № 390-11 SPEC.№3880/PO52069 DIN EN 10088-3-05,DIN EN 10272-08,DIN EN 10222-5-00,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; 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,CL1;NACE MR 0175-03;NACE MR 0103-10	INSPECTION CERTIFICATE EN10204/3.1 Nr.375212 PLANT ORDER № 8014903880
	CUSTOMER DSS INTERNATIONAL SA Switzerland	PRODUCT DESCRIPTION Bars and rods of corrosion-resistant (stainless) steel forged, peeled.Прутки из коррозионностойких (нержавеющих) сталей кованные, обточенные. STEEL MAKING PROCESS: EAF+AOD СПОСОБ ВЫПЛАВКИ: Электродуговая печь+АКР Round 11.000in/279.40 mm L=14.508 ft/4.425m L=14.967 ft/4.565m Grade: 316/316L/1.4401/1.4404

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 № A10436	.024	.62	1.32	.040	.022	16.92	10.06	2.07	.069	.25	.05	.06	.008	.125	.012	.035	.0086	.0023

DIN EN 10002-1,ASTM A370-09										
MECHANICAL PROPERTIES	Yield Strength, (N/mm ²) R0.2% R1.0%	Tensile Strength, Rm, (N/mm ²)	Elongation		Reducti on of area, Z % L	Brinell Hardness HB	Impact strength, K V, J			
			A,% L	In 2 inches (50mm) or 4D,min,% L			L	Q		
			REQUIRED	205			240	515-690	45 35	40
EFFECTIVE	270	314	549	59 48	58	73	163	198 198 198	64	64 64

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/Подтверждаем, что поставленная продукция соответствует требованиям заказа
 Ratio of reduction 7.4:1

Mechanical properties tested in state of delivery		
US - testing	yes	Results: ASTM A388/A388M-FBH1/5";EN 10228-4 type 1a;class 3:OK
Radiation free; mercury free. No Weld or Weld repair.		

Date: 04.11.2021 Manager of quality assurance department
 - V. Kapsiava Signed:
 Zaporozhye
 Melted and Produced in Ukraine.
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