



C219698


PrJSC DNIPROSPETSSTAL, YUZHNOYE SHOSSE 81, 69008 ZAPOROZHYE, UKRAINE

	Contract No.: 20002 TECHN.PROTOCOL № 390-11 SPEC.№9398/PO44029 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-10 GR 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	Sheets: 4 Sheet: 4 INSPECTION CERTIFICATE EN10204/3.1 Nr.334825 PLANT ORDER № 8014909398
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 QMS Certified	CUSTOMER DSS INTERNATIONAL SA Switzerland	PRODUCT DESCRIPTION Bars and rods of corrosion-resistant (stainless) steel forged, peeled. Прутки из коррозионноустойчивых (пержавеющих) сталей кованные, обточенные. STEEL MAKING PROCESS: EAF+AOD СПОСОБ ВЫПЛАВКИ: Электроплавочная печь + АКР Round 13.000in/330.20 mm L=11.377 ft/3.470m L=9.967 ft/3.040m Grade: 316/316L/1.4401/1.4404	QUANTITY: 1bund Q-5366 lb/2434 kg (number of pcs) 1bund Q-4660 lb/2114 kg	Delivery condition solution annealed : 1940 ^o F (1060 ^o C) water 36minutes термообработка: закалка в воду
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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 № A06028	.020	.45	1.35	.040	.026	16.88	10.32	2.07	.065	.32	.05	.05	.01	.11	.013	.023	.012	.0027

DIN EN 10002-1, ASTM A370-09										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 1.5 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-6.6:1									
MECHANICAL PROPERTIES	Yield Strength, (N/mm ²) R0.2% R 1.0%		Tensile Strength, Rm, (N/mm ²)	Elongation		Reduction of area, Z, %	Brinell Hardness HB	Impact strength, KV, J											
				A ₅ , % L Q	In 2 inches (50mm) or 4D, min, % L			L	Q										
REQUIRED	205	240	515-690	45 35	40	50	140-217	100	60										
EFFECTIVE	269	301	569	59 48	58	79	163	189 189 189	79 79 79										

US - testing	yes	Results: ASTM A388/A388M-FBH1/5"; EN 10228-4 type 1a; class 3:OK	Manufacturer: PrJSC DNIPROSPETSSTAL Date: 13.06.18 Manager of quality assurance department - V. Kapaieva Signed: Zaporozhye Made in Ukraine.
Radiation free; mercury free. No Weld or Weld repair.			

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