


C220877


**PrJSC DNIPROSPETSSTAL, YUZHNOYE SHOSSE 81, 69008 ZAPOROZHYYE, UKRAINE**

	Contract No.: 20002 TECHN.PROTOCOL № 390-11 SPEC.№ 9728/P044311 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, 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, CL 1; NACE MR 0175-03; NACE MR 0103-10	Sheets: 7                      Sheet: 2 <b>INSPECTION CERTIFICATE EN10204/3.1 Nr.335735</b> PLANT ORDER № 8014909728
---	--	--

 GMS Certified	CUSTOMER <b>DSS INTERNATIONAL</b> SA Switzerland	<b>PRODUCT DESCRIPTION</b> Bars and rods of corrosion-resistant (stainless) steel forged, peeled. Прутки из коррозионноустойчивых (нержавеющих) сталей кованные, обточенные. <b>STEEL MAKING PROCESS: EAF+AOD</b> <b>СПОСОБ ВЫПЛАВКИ: Электродуговая печь+АКР</b> Round 11.000in/279.40 mm L=14.492 ft/4.42 m; L=14.459 ft/4.41 m <b>Grade: 316/316L/1.4401/1.4404</b>	QUANTITY: <b>1bund Q-4890 lb/2218 kg</b> (number of pcs) <b>1bund Q-4859 lb/2204 kg</b>  Delivery condition solution annealed : 1940° F(1060° 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 № A06147	.017	.41	1.36	.040	.025	16,85	10.20	2.05	.067	.36	.06	.08	.005	.13	.013	.025	.0129	.0025

DIN EN 10002-1, ASTM A370-09										<b>TECHNICAL REQUIREMENTS:</b> 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/Подтверждаем, что поставленная продукция соответствует требованиям заказа Ratio of reduction-5.8:1								
MECHANICAL PROPERTIES	Yield Strength, (N/mm <sup>2</sup> ) R0.2% R 1.0%		Tensile Strength, Rm, (N/mm <sup>2</sup> )	Elongation A5% L Q    In 2 inches (50mm) or 4D,min,% L		Reduction of area, Z, % L	Brinell Hardness HB	Impact strength, KV, J L            Q										
REQUIRED	205	240	515-690	45 35	40	50	140-217	100	60									
EFFECTIVE	280	304	586	61 54	59	75	174	176 176 176	64 64 64									

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.	Manufacturer: PrJSC DNIPROSPETSSTAL Date: 10.07.18    Manager of quality assurance department - V. Kapaieva Signed:  Zaporozhye Made in Ukraine.
---	--	--	--	---	---

ANS