

HTA A06028

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**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-10GR B8M, CL1, ASME SA-193/SA-193M-10 GR B8, CL1, ASTM A320/A320M-08 GR B8M, CL1, ASME SA-320/SA-320M-10 GR B8, CL1, NACE MR 0175-03, NACE MR 0103-10

**Sheets: 4** Sheet: 4  
**INSPECTION CERTIFICATE EN10204/3.1 Nr. 334825**  
PLANT ORDER № 8014909398

**CUSTOMER**  
**DSS INTERNATIONAL**  
SA Switzerland

**PRODUCT DESCRIPTION**

Bars and rods of corrosion-resistant (stainless) steel forged, peeled, Прутки из коррозионностойких (нержавеющих) сталей кованые, обработанные.

**STEEL MAKING PROCESS: EAF+AOD**

**СПОСОБ ВЫПУСКА:** Электроплавочная печь+АКР  
Round 13.000mm/330.20 mm L=11.377 m/3.470m L=9.967 m/3.040m

**QUANTITY:**  
(number of pcs) 1bund Q-5366 lb/2434 kg  
1bund Q-4660 lb/2114 kg

Delivery condition  
solution annealed :1940° F(1060° C)water 36minutes  
термообработка:закалка в воду



AMS Certified

ANALYSIS, %	C	Si	Mn	P	S	Cr	Ni	Mo	Al	Cu	V	W	Ti	Co	Nb	N	Sn	B
REQUIRED	<.030	<.100	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

MECHANICAL PROPERTIES	Yield Strength (N/mm <sup>2</sup> ) R0.2% R 1.0%	Tensile Strength, Rm (N/mm <sup>2</sup> )	Elongation		Reduction of area, Z %	Brinell Hardness HB	Impact strength, KV, J													
			A <sub>5</sub> %	In 2 inches (50mm) or 4D, min, %			L	L	L	Q										
REQUIRED	205	515-690	45-35	40	50	140-217	100	60												
EFFECTIVE	269	569	59-48	58	79	163	189	189	189	79	79	79								

Mechanical properties tested in state of delivery

**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
2.0	1.5	2.0	1.0
0.0	0.0	0.0	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

Manufacturer: PrJSC DNIPROSPETSSTAL

Date: 13.06.18

assurance department - V. Kapaleva

Signed:

Zaporozhye

Made in Ukraine.

US - testing yes Results: ASTM A388/A388M-FBH/5", EN 10228-4 type Ia, class 3-OK

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