

SIN # 6275 4NPS SSRVM 7-55 CB1183

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

Contract No.: 20002  
 TECHN. PROTOCOL № 390-11 SPEC. № 4176/PO52377  
 DIN EN 10088-3-05, DIN EN 10272-08, AD 2000-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; 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 B8M,CL 1; NACE MR 0175-03; NACE MR 0103-10

INSPECTION CERTIFICATE EN10204/3.1 Nr. 376539  
 PLANT ORDER № 8014904176

**PRODUCT DESCRIPTION**  
 Bars and rods of corrosion-resistant (stainless) steel hot rolled, peeled on Landgraf line. Прутки из коррозионностойких (нержавеющих) сталей горячекатаные, обработанные на линии Ландграф.  
**STEEL MAKING PROCESS: EAF+AOD**  
**СПОСОБ ВЫПУСКА: Электроплавочная печь + АКР**  
 Round 6.250in/158.75 mm L=4.360/14.295ft L=5.620/18.426ft L=5.610/18.393ft  
**Grade: 316/316L/1.4401/1.4404**

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

**QUANTITY:**  
 1bund Q-1556 lb/706 kg  
 1bund Q-4012 lb/1820kg  
 1bund Q-2006 lb/910 kg

Delivery condition  
 solution annealed : 1900° F(1040° 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 № A10739	.023	.42	1.40	.038	.027	16.97	10.32	2.04	.068	.36	.06	.04	.005	.18	.01	.029	.010	.0023

DIN EN 10002-1, ASTM A370-09

MECHANICAL PROPERTIES	Yield Strength, (N/mm <sup>2</sup> ) R <sub>0.2%</sub> R 1.0%	Tensile Strength, R <sub>m</sub> , (N/mm <sup>2</sup> )		Elongation		Reducti on of area, Z %	Brinell Hardness HB	Impact strength, KV, J												
		A <sub>5</sub> %	L	Q	L			L	L	L	L	Q								
REQUIRED	205	240	515-700	40	40	50	140-217	100	-	-	-	-	-	-	-	-	-	-	-	
EFFECTIVE	292 294	324 327	565 568	60 60	59 59	79 79	167 167	211 207	211 207	211 207	211 207	211 207	211 207	211 207	211 207	211 207	211 207	211 207	211 207	211 207

**TECHNICAL REQUIREMENTS:**  
 Macrostructure - GOOD  
 GRAIN SIZE: 5 to ASTM E 112-96(2004)  
 Nonmetallic inclusions ASTM E 45-05 (Method A)  
 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-15.1:1

**US - testing**      yes      Results: ASTM A388/A388M-FBH1/8"; EN 10308 type 1a; class 3:OK

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

Date: 31.12.2021 Manager of quality assurance  
 department - V. Kapatieva Signed:  
 Zaporozhye  
 Melted and Produced in Ukraine.  
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