


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

	Contract No.: 50006 TECHN.PROTOCOL № 390-11 SPEC.№5056/P965495-842 DIN EN 10088-3-05, DIN EN 10272-08, AD2000-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 5639H-07; AMS 5647H-07; ASTM A193/A193M-10 GR B8,CL1; ASME SA-193/SA-193M-10 GR B8,CL1; ASTM A320/A320M-08 GR B8,CL1; ASME SA-320/SA-320M-10 GR B8,CL1; NACE MR 0175-03; NACE MR 0103-10		Sheets: 1 Sheet: 1 INSPECTION CERTIFICATE EN10204/3.1 Nr.353467 PLANT ORDER № 8081905056
	CUSTOMER "DSS Global Trading", Ukraine Commodity code 509091	PRODUCT DESCRIPTION Bars and rods of corrosion-resistant (stainless) steel hot rolled, peeled on Landgraf line. Прутки из коррозионно-стойких (нержавеющих) сталей горячекатаные, обточенные на линии Ландграф. STEEL MAKING PROCESS: EAF+AOD СПОСОБ ВЫПЛАВКИ: Электродуговая печь+АКР Round 6.000in/152.40 mm L=4.450m/14.590ft L=4.350m/14.262ft Grade: 304/304L/1.4301/1.4307	QUANTITY: (number of pcs) 1bund Q-5767 lb/2616 kg 1bund Q-1424 lb/646 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	18.00-19.50	8.00-10.00	<.30	<.10	<.40	<.10	<.20	<.15	<.40	<.20	<.10		
CAST № A08011	.030	.43	1.61	.037	.024	18,60	8.25	.23	.067	.34	.07	.04	.005	.10	.015	.075	.009	.0018

DIN EN 10002-1, ASTM A370-09										TECHNICAL REQUIREMENTS: Macrostructure – GOOD GRAIN SIZE : 5 to ASTM E 112-96(2004) <i>Ship# 22547</i> 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 Ratio of reduction-16.1:1									
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												
REQUIRED	205 230	515-700	A5% L Q	In 2 inches (50mm) or 4D, min, % L	50	140-223	L	Q											
EFFECTIVE	304 348 301 345	563 561	60 60	58 58	78 78	163 163	200 204	200 204											

Mechanical properties tested in state of delivery										Date: 23.01.2020 Manager of quality assurance department - V. Kapaieva Zaporozhye Signed: Melted and Produced in Ukraine. MELTED and MANUFACTURED PrJSC " Dnipropetsstal" Phone number +380612834255 e-mail: info@dss.com.ua http://www.dss-ua.com									
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.																			

*Handwritten signature*

P.O. # 5593

PART # 03-FODE-40-5TO

DESCRIPTION: 3" SCH# 40 SN. 5TO. 709 BORE 304S/S

*ANS*