


PrJSC DNIPROSPETSSTAL, YUZHNOYE SHOSSE 81, 69008 ZAPOROZHYE, UKRAINE


 <p>QMS Certified</p>	<p>CUSTOMER DSS INTERNATIONAL SA Switzerland</p>	<p>PRODUCT DESCRIPTION Bars and rods of corrosion-resistant (stainless) steel forged, peeled. Прутки из коррозионностойких (нержавеющих) сталей кованные, обточенные. STEEL MAKING PROCESS: EAF+AOD СПОСОБ ВЫПЛАВКИ: Электродуговая печь+АКР Round 13.000in/330.20 mm L=10.393ft/3.170m L=10.852 ft/3.310m Grade: 316/316L/1.4401/1.4404</p>	<p>INSPECTION CERTIFICATE EN10204/3.1 Nr.370941 PLANT ORDER № 8014902608</p>
			<p>QUANTITY: 1bund Q-4903 lb/2224 kg (number of pcs) 1bund Q-5110 lb/2318 kg</p> <p>Delivery condition solution annealed :1940⁰F(1060⁰C)water 30minutes термообработка:закалка в воду</p>

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 № A09969	.024	.44	1.37	.040	.027	16.79	10.25	2.06	.074	.22	.06	.05	.005	.10	.01	.029	.0076	.0023

DIN EN 10002-1, ASTM A370-09										<p>TECHNICAL REQUIREMENTS: Macrostructure – GOOD GRAIN SIZE : 5 to ASTM E 112-96(2004) Nonmetallic inclusions ASTM E 45-05 (Method A)</p> <table border="1"> <tr> <td colspan="2">A</td> <td colspan="2">B</td> <td colspan="2">C</td> <td colspan="2">D</td> </tr> <tr> <td>thin</td> <td>thick</td> <td>thin</td> <td>thick</td> <td>thin</td> <td>thick</td> <td>thin</td> <td>thick</td> </tr> <tr> <td>2.5</td> <td>2.0</td> <td>2.0</td> <td>2.0</td> <td>0.0</td> <td>0.0</td> <td>1.0</td> <td>1.0</td> </tr> </table> <p>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-6.1:1</p>										A		B		C		D		thin	thick	thin	thick	thin	thick	thin	thick	2.5	2.0	2.0	2.0	0.0	0.0	1.0	1.0
A		B		C		D																																					
thin	thick	thin	thick	thin	thick	thin	thick																																				
2.5	2.0	2.0	2.0	0.0	0.0	1.0	1.0																																				
MECHANICAL PROPERTIES	Yield Strength, (N/mm ²) R0.2% R 1.0%		Tensile Strength, Rm, (N/mm ²)	Elongation		Reduction of area, Z % L	Brinell Hardness HB	Impact strength, KV, J																																			
	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	278	306	576	61.54	58	76	167	216 216 216	65 65 65																																		

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.		

Date: 18.06.2021 Manager of quality assurance department
- V. Kapaieva Signed:
Zaporozhye
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P.O. # 6063 Part # 10-FOE-80 Desc: 10" CPA 50E S-80 316 S/S

ANS