
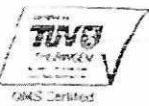


C50876

Pr.JSC DNIPROSPETSSTAL, YUZHNOYE SHOSSE 81, 69008 ZAPOROZHYE, UKRAINE

	Contract No. 2000? TECHN. PROTOCOL № 300 II SPEC №1642/PO31840 DIN EN 10088-3-05, DIN EN 10272-08, DIN EN 10272-5-09, ASTM A 182/A 182M - 0, ASME SA 182/SA 182M-10, ASTM A 276-10, ASTM A 314-10, ASTM A 419/A 419M-10, ASME SA 479/SA 479M-10, ASTM A 484/A 484M-10, AMS-QQ S 762B 06 Cond. A, AMS 5648K-07, AMS 5653J1-07, ASTM A 193/A 193M-10GR, B3M, CL1, ASME SA-193/SA-193M-10 GR B3, CL 1, ASTM A320/A320M-08 GR B3M, CL 1, ASME SA 320/SA 320M-10 GR B3, CL 1, NACE MR 0175-03, NACE MR 0103-10	INSPECTION CERTIFICATE EN10204-3 - Nr. PLANT ORDER № 8014903642						
	<table border="1"> <tr> <td data-bbox="420 389 672 584"> CUSTOMER BSS INTERNATIONAL SA Switzerland </td> <td data-bbox="672 389 1396 584"> 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+AOP Round 18 750m/47625 mm L=5 000 R/1 660m L=5 000 Ø/1 640m Grade: 316/316L/L4401/L4404 </td> </tr> </table>	CUSTOMER BSS INTERNATIONAL SA Switzerland	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+AOP Round 18 750m/47625 mm L=5 000 R/1 660m L=5 000 Ø/1 640m Grade: 316/316L/L4401/L4404	<table border="1"> <tr> <td data-bbox="1396 389 1575 454"> QUANTITY: (number of pcs) </td> <td data-bbox="1575 389 1816 454"> Iband Q-5295 lb/2402 Iband Q-5234 lb/2374 </td> </tr> <tr> <td colspan="2" data-bbox="1396 454 1816 584"> Delivery condition solution annealed 1922°F(1050°C)water 36min термообработка закалка в воду </td> </tr> </table>	QUANTITY: (number of pcs)	Iband Q-5295 lb/2402 Iband Q-5234 lb/2374	Delivery condition solution annealed 1922°F(1050°C)water 36min термообработка закалка в воду	
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ANALYSIS, %	C	Si	Mn	P	S	Cr	Ni	Mo	Al	Cu	V	W	Ti	Co	Nb	N	Sn
REQUIRED	< 0.30	< 1.00	1.20-2.00	< 0.40	0.15-0.50	16.50-18.00	10.00-13.00	2.00-2.50	< 10	< 40	< 10	< 20	< 15	< 40	< 20	< 10	
CAST № A10353	0.23	.43	1.33	.039	.025	16.76	10.22	2.03	.06	.23	.05	.04	.006	.13	.01	.027	.007

DIN EN 10002-1, ASTM A370-09										TECHNICAL REQUIREMENTS:							
MECHANICAL PROPERTIES	Yield Strength, (N/mm ²) 0.2% R _{0.2} R _{10%}		Tensile Strength, R _m (N/mm ²)	Elongation		Reduct. on of area, Z %	Brinell Hardness HB	Impact strength, KV, J									
	A ₅ L	Q		In 2 inches (50mm) or other, % L	L			L	L	Q	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						
REQUIRED	205	240	215-690	45-75	40	50	140-217	100	60								
EFFECTIVE	246	319	560	62-53	60	79	167	250-250-250	61-61-61	ICC-ASTM A262-08 (practice E)-test OK. Dimension/surface defects test, anti-mixing test - OK. We acknowledge that the delivered products conform to the require of the order/Подтверждаем что поставленная продукция соответствует требованиям заказа. Ratio of reduction - 7.5-1							

Mechanical properties tested in state of delivery			Date: 03.10.2021 Manager of quality assurance department V. Kaparova Signed Запорожье Melted and Produced in Ukraine MELTED and MANUFACTURED Pr.JSC "Dnipropetsstal" Phone number +380612814255 e-mail: info@bss.com.ua http://www.dnpp.com.ua							
US - testing	yes	Results: ASTM A388, A388M-F811/5" EN 10228-4 type 1a, class 3 OK								
Radiation free, mercury free No Weld or Weld repair.										

Provided by CPA
 www.flowconditioner.com, info@cpacl.com