



SN 6392-01
To
6392-15

DSRB359053_5

PrJSC DNIPROSPETSSTAL, YUZHNOYE SHOSSE 81, 69008 ZAPOROZHYE, UKRAINE

	Contract No.: 20002 TECHN.PROTOCOL № 210-11 SPEC.№ 8181/PO L0535 ASTM A182/A182M-19;ASME SA-182/SA-182M-17;ASTM A276-17;ASTM A314-19;ASTM A479/A479M-19;ASME SA-479/SA-479M-17;ASTM A484/A484M-19;AMS-QQ-S-763D-15 Cond.A; AMS 5648M-16;AMS 5653J-19;ASTM A193/A193M-19 GR B8M,CL1 ;ASME SA-193/SA-193M-17 GR B8M,CL1;ASTM A320/A320M-18 GR B8M,CL 1; ASME SA-320/SA-320M-17 GR B8M,CL 1;ANSI/NACE MR 0175/ISO 15156-3-15;ANSI/NACE MR 0103/ISO 17945-15	Sheets: 5 Sheet: 5 INSPECTION CERTIFICATE EN10204/3.1 Nr.359053 PLANT ORDER № 8023408181
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 GMS Certified	CUSTOMER DSS INTERNATIONAL SA Switzerland Ta Chen International, Inc. Long Beach, CA , 90805 Commodity code RB6L1500/DS	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 15.000in/381.00 mm L=15.279m/4.66 m; Grade: 316/F316/316L/F316L	QUANTITY: 1bund Q-9511 lb/4314 kg (number of pcs)
			Delivery condition solution annealed :1900-2010° F(1040-1100°С)/water термообработка:закалка в воду

ANALYSIS, %	C	Si	Mn	P	S	Cr	Ni	Mo	Al	Cu	V	W	Ti	Co	Nb	N		
REQUIRED.	<.030	<1,00	1.25-2.00	<.040	.020-.030	16.00-18.00	10.00-14.00	2.00-3.00	<.10	<.40	<.10	<.20	<.15	<.40	<.20	<.10		
CAST № A08738	.030	.41	1.33	.036	.023	16.81	10.40	2.06	.061	.33	.05	.06	.005	.09	.013	.032		

MECHANICAL PROPERTIES	Yield Strength, Ksi(N/mm ²) Re (R _{0.2})	Tensile Strength, Rm,ksi (N /mm ²)	Elongation A ₅ %	Reduction of area, Z %	Brinell Hardness HB	Impact strength, KV, J
REQUIRED	30(207)	75 (517)	45	50	140-223	100
EFFECTIVE	44.3(304)	81.1(557)	60	78	163	211


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 thin thick thin thick
 2.5 2.0 1.5 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-5.5:1

Mechanical properties tested in state of delivery

US - testing yes Results: SEP 1921,group 3/class Cc - OK

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

P.O.#:	0125704
R#:	R176745
ITEM#:	527249
HEAT#:	A08738
BRANCH#:	875

Date: 15.07.2020 Manager of quality assurance department
 - V. Kapaieva
 Signed:

 Zaporozhye
 Melted and Produced in Ukraine.
 MELTED and MANUFACTURED PrJSC " Dnipropetsstal"
 Phone number +380612834255
 e-mail:info@dss.com.ua
 http://www.dss-ua.com

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