

93344

	<b>JSC DNEPROSPETSSTAL</b> YUZHNOYE SHOSSE 69008, ZAPOROZHYE UKRAINE		Purchase order No.: 07218 TECHN. PROTOCOL No. 710-08 SPEC. 34178 1976-00117 ASTM A192/A192M ASME SA-192 SA-192M ASME SA-192 ASTM A192/A192M ASME SA-192 SA-192M ASME SA-192 ASTM A192/A192M ASME SA-192 SA-192M ASME SA-192 ASTM A192/A192M ASME SA-192 SA-192M ASME SA-192 ASTM A192/A192M ASME SA-192 SA-192M ASME SA-192	Sheet: 7      Sheet: 4 <b>QUALITY CERTIFICATE EN10204 J1 Nr.211692</b> PLANT ORDER № 072181278																														
CUSTOMER			<b>PRODUCT DESCRIPTION</b> Rods of corrosion-resistant (stainless) steel forged peeled. Прутки из коррозионноустойчивых легированных сталей сечением обкатанные. <b>STEEL MAKING PROCESS: EAF+AOD</b> <b>СПЛОС ВЫПЛАВКА: Электродуговая печь+AOP</b> Round 9.000x28.00 mm L=4.39m Grade: 316F316L/316L	QUANTITY: (number of pcs)      1bund Q-3263 16/1480 kg																														
			<b>DELIVERY CONDITION</b> solution annealed: 1900-2010° F(1040-1100°C)/water термообработка: закалка в воде																															
<b>ANALYSES, %</b>																																		
	C	Si	Mn	P	S	Cr	Ni	Mo	Al	Cu	V	W	Ti	Co	Nb	N <sub>2</sub>																		
REQUIRED	<0.00	<1.00	1.23-2.00	<0.040	0.020-0.030	16.00-18.00	10.00-14.00	2.00-3.00	<10	<40	<10	<20	<15	<40	<20	<10																		
CAST № 93344	.026	.46	1.30	.037	.025	17.10	10.11	2.07	.036	.28	.04	.15	.12	.066	0.11	.034																		
<b>MECHANICAL PROPERTIES</b>										<b>TECHNICAL REQUIREMENTS:</b> Macrostructure - GOOD GRAIN SIZE - 5 to ASTM E 112 Nonmetallic Inclusions ASTM E 45 (Method A) <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="text-align: center;">A</td> <td style="text-align: center;">B</td> <td style="text-align: center;">C</td> <td style="text-align: center;">D</td> </tr> <tr> <td style="text-align: center;">thin</td> <td style="text-align: center;">thick</td> <td style="text-align: center;">thin</td> <td style="text-align: center;">thick</td> </tr> <tr> <td style="text-align: center;">2.0</td> <td style="text-align: center;">1.0</td> <td style="text-align: center;">1.5</td> <td style="text-align: center;">1.0</td> </tr> <tr> <td style="text-align: center;">0.0</td> <td style="text-align: center;">0.0</td> <td style="text-align: center;">0.0</td> <td style="text-align: center;">1.0</td> </tr> </table> ICC-ASTM A262-02a(Method E)-test: O.K. Dimension/surface defects test: anti-rusting test - O.K. Ratio of reduction-8.74 <b>NOTE:</b> The customer confirms that the above stated requirements to chemical composition, dimensions, mechanical properties, packing, marking and inspection certificate comply with the specification SSI Rev3.									A	B	C	D	thin	thick	thin	thick	2.0	1.0	1.5	1.0	0.0	0.0	0.0	1.0
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REQUIRED	Yield Strength, Ksi (MPa) R <sub>e</sub> (R <sub>m</sub> )	Tensile Strength, Ksi (MPa) R <sub>m</sub> (R <sub>t</sub> )	Elongation, A <sub>1</sub> %	Reduction of area, Z %	Brinell Hardness HB	Impact strength, KV, J																												
EFFECTIVE	44.4(305)	80(550)	62	73	163	216																												
Mechanical properties tested in state of delivery																																		
US - testing	yes	Results: SEP 1921, 3/ Cc - O.K.																																
Radiation free; mercury free. No Weld or Weld repair.										Manufacturer: JSC DNEPROSPETSSTAL Date: 07.05.08 Signed: T. Xbashkina Zaporozhye Made in Ukraine.																								

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