

## **Certificate of Conformance to Requirements for Welding Electrodes**

This is to certify that the product named below is of the same classification, manufacturing process, and material requirements as the material which was used for the test that was concluded on the date shown, the results of which are shown below. All tests required by the specifications shown for classification were performed at that time and the material tested met all requirements. It was manufactured and supplied according to the quality system of Tianjin Bridge, which meets the requirements of ISO9001, AWS A5.01, and other specification.

Date Welded:	JAN. 10, 2017	Date			Tested:			JAN. 15, 2017			
Classification:	ER70S-6	Speci			ication: AWS A5.18:200			05, ASME SAF-5.18			
Product:	035, ER70S-6CU,	44#	Heat M		No.:		201624				
,					Lot N	o.:	820409				•
Weld Test Conditio	ns:	Required					Av	erage	Resul	ts	
Electrode Diameter			N	A				450			
Polarity _			DO	<u></u>		DC+					•
Shielding Gas		100% CO2				100%C02					•
Voltage (V)		27-31					30				
Wire Feed Speed (i.p.m.)		427. 5-472. 5				470					
Current (A)		260-290					290				
Contact Tip to Work Distance		0.625-0.872					0.87				
Travel Speed (i.p.	m.)		12-	-14				1	.4		
Passes	ntact Tip to Work Distance avel Speed (i.p.m.) sses eheat Temperature °F(°C) terpass Temperature °F(°C)		NA				13				
Preheat Temperature °F (°C)		60 min					RT				
Interpass Temperature ° F (° C)		275-325				-	275-325				
Postweld Heat Treatment° F (° C)		NA						As W	elded		
Mechanical Properties as Welded: Tensile Strength, psi 66265 Yield Strength, psi 80185 Elongation % in 2" 27					Radio	graphic	Inspe	ection	ACC	CEPTAB	LE
Average Charpy Impac	et Energy (J @ -30°	C)	<b>&gt;</b>	≥27							
Charpy Impact Values	96. 0	102. 0		100.0							
Required Chemical Composition: Actual Chemical Composition:	C S 0.06-0.15 0-0.025 0.079 0.012	Mn 1. 4-1. 85 1. 470	P 0-0. 025 0. 013	Si 0. 80-1. 15 0. 890	Cr 0-0. 15 0. 020	Ni 0-0. 15 0. 020		V 0-0. 03 0. 002	Cu 0-0. 50 0. 110		

Certification: Canadian Welding Bureau Certified



By: TIANJIN BRIDGE WELDING MATERIALS
GROUP CO., LTD

Date JAN. 15, 2017

Customer Service 1-800-777-1618