

SHANDONG JULI WELDING CO., LTD.

NO.3888 OF JINGHUA ROAD, ECONOMIC DEVELOPMENTZONE OF DEZHOU, 253000, SHANDONG, CHINA

T E L : 0 0 8 6 - 1 5 9 - 6 4 1 6 1 6 7 7

F A X : 0 0 8 6 - 5 3 4 - 2 2 3 0 0 3 9

QUALITY CERTIFICATE

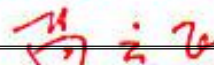
PI NO.: WU190219-CO

INVOICE NO.: WU190527-CO

DATE: 2019-05-27

Commodity	Size	BatchNo.	Mfg Date	Standard				Shielding Gas	Date of issue		
welding electrodoes	2.5mm	/	2019.05	AWS A5.1 E6013				--	2019.05.27		
Chemical Composition (%)											
Element	C	Mn	Si	P	S	Ni	Cr	Mo	V		
Specification	≤0.20	≤1.20	≤1.00	≤0.04	≤0.035	≤0.30	≤0.20	≤0.30	≤0.08	-	-
Filler Metal	0.063	0.35	0.27	0.018	0.021	0.057	0.021	0.06	0.013	-	-
Mechanical Properties											
	Tensile Strength MPa		Yield Point MPa		Elongation (%)		Impact Temp (°C)		Impact Value (J)		
Requirement	≥430		≥330		≥16		0		≥47		
Real Parameter	525		430		27		0		127		
Remarks	We hereby to certify that the mechanical properties and chemical composition of the whole lot satisfy all requirements.										

山东聚力焊接材料有限公司
SHANDONG JULI WELDING CO., LTD.


Authorized Signature

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DATE: 2019-05-27

Commodity	Size	BatchNo.	Mfg Date	Standard				Shielding Gas	Date of issue		
welding electrodoes	3.2mm	/	2019.05	AWS A5.1 E6013				--	2019.05.27		
Chemical Composition (%)											
Element	C	Mn	Si	P	S	Ni	Cr	Mo	V		
Specification	≤0.20	≤1.20	≤1.00	≤0.04	≤0.035	≤0.30	≤0.20	≤0.30	≤0.08	-	-
Filler Metal	0.063	0.35	0.27	0.018	0.021	0.057	0.021	0.06	0.013	-	-
Mechanical Properties											
	Tensile Strength MPa		Yield Point MPa		Elongation (%)		Impact Temp (°C)		Impact Value (J)		
Requirement	≥430		≥330		≥16		0		≥47		
Real Parameter	520		425		28		0		125		
Remarks	We hereby to certify that the mechanical properties and chemical composition of the whole lot satisfy all requirements.										

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高云飞
Authorized Signature

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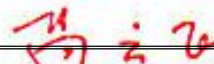
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DATE: 2019-05-27

Commodity	Size	BatchNo.	Mfg Date	Standard				Shielding Gas	Date of issue		
welding electrodes	2.5mm	/	2019.05	AWS A5.1 E7018				--	2019.05.27		
Chemical Composition (%)											
Element	C	Mn	Si	P	S	Ni	Cr	Mo	V		
Specification	≤0.15	≤1.60	≤0.90	≤0.035	≤0.035	≤0.30	≤0.20	≤0.30	≤0.08	-	-
Filler Metal	0.062	1.23	0.45	0.012	0.016	0.032	0.014	0.003	0.003	-	-
Mechanical Properties											
	Tensile Strength MPa		Yield Point MPa		Elongation (%)		Impact Temp (°C)		Impact Value (J)		
Requirement	≥490		≥400		≥20		-30		≥27		
Real Parameter	545		450		28		-30		131		
Remarks	We hereby to certify that the mechanical properties and chemical composition of the whole lot satisfy all requirements.										

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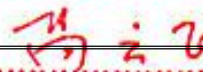
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Commodity	Size	BatchNo.	Mfg Date	Standard				Shielding Gas	Date of issue		
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Element	C	Mn	Si	P	S	Ni	Cr	Mo	V		
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Mechanical Properties											
	Tensile Strength MPa		Yield Point MPa		Elongation (%)		Impact Temp (°C)		Impact Value (J)		
Requirement	≥490		≥400		≥20		-30		≥27		
Real Parameter	550		455		28		-30		127		
Remarks	We hereby to certify that the mechanical properties and chemical composition of the whole lot satisfy all requirements.										

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