ITW 天泰銲材 TIENTAI ELECTRODE

Certification List of welding consumables

2026.11.01

Product	producing area	Inspection agency *												
		ABS	BV	CCS	CR	DNV	LR	NK	JPEG	CWB	CE	JIS	TÜV	RINA
E-10	Taiwan				3	3		KMW3				√		
F-03	Taiwan											√		
TC-10	Taiwan	AWS A5.1 E6010												
TC-11	Taiwan	AWS A5.1 E6011												
TL-50	Taiwan	3Y H10	3YHH		3Y H10	3 Y(H5)	3Ym,H10	KMW53H10			√	√		
TL-50D	Taiwan	3Y H10	3Y HH		3Y H10	3 YH10	3Ym,H10	KMW53H10				√		
TL-508	Taiwan	3Y									√			
TL-581	Taiwan	4Y H10												
TLH-581	Taiwan	4Y400 H5									√			
TN-28	Taiwan		5Y H10	0.5Ni H5		5 Y(H5) (VL 2-4L,VL 4-4L)		KMWL3H5			√			
PipeMark 816	Taiwan					4 Y46(H5)					√			
TS-308	Taiwan											√		
TS-308L	Taiwan	AWS A5.4 E308L-16										√		
TS-308LB	Taiwan		308L BT											
TS-309	Taiwan											√		
TS-309L	Taiwan	AWS A5.4 E309L-16										√		
TS-316	Taiwan											√		
TS-316L	Taiwan	AWS A5.4 E316L-16										√		
TS-347	Taiwan											√		
TNM-9	Taiwan	AWS A5.11 ENiCrMo-6 I.V@-196≧47J				NV 1.5Ni up to NV 9Ni H5								
TGA-56	Taiwan	5YQ460 H5				V Y46M H5	5Y46m H5				√			
TM-56	Taiwan										√			
TM-60	Taiwan					V Y50MS(H5)					√			
TGA-2209	Taiwan					UNS S31803 (1.4462) I.V@-20℃≧27J								

ITW 天泰銲材 TIENTAI ELECTRODE

Certification List of welding consumables

2026.11.01

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TGA-308/308L	Taiwan	AWS A5.9 ER308L								√				
TGA-309/309L	Taiwan	AWS A5.9 ER309L				NV 309L I.V@-46℃ ≧27J				√				
TGA-316L	Taiwan	AWS A5.9 ER316L I.V@-196℃ ≧27J	316L BT I.V@-196℃ ≧27J	316LNS I.V@-196≧29J		VL 316L I.V@-196℃ ≧27J	316Lm I.V@-196℃ ≧29J	KY316LG(I) I.V@-196℃ ≧27J			√			316L BT I.V@-196℃ ≧27J
TGA-316/316L										√				
TGA-316LSi	Taiwan	AWS A5.9 ER316LSi												
MIG-308/308L	Taiwan	AWS A5.9 ER308L								√				
MIG-308LSi	Taiwan	AWS A5.9 ER308LSi		304LN I.V@-196℃ ≧29J										
MIG-309/309L	Taiwan	AWS A5.9 ER309L								√				
MIG-309LSi	Taiwan	AWS A5.9 ER309LSi												
MIG-316L	Taiwan										√			
MIG-316/316L	Taiwan	AWS A5.9 ER316L								√				
MIG-316LSi	Taiwan	AWS A5.9 ER316LSi									√			
TSW-12KM	Taiwan										√	√		
TSW-12KH	Taiwan										√			
TSW-60G	Taiwan											√		
TF-565	Taiwan											√		
TF-585	Taiwan											√		
TF-210	Taiwan										√			
TF-250	Taiwan										√			
TF-218	Taiwan										√			
ST 55	Taiwan										√			
TSW-12KM/ TF-385	Taiwan	3YM H10												

天泰銲材 TIENTAI ELECTRODE

Certification List of welding consumables

2026.11.01

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		ABS	BV	CCS	CR	DNV	LR	NK	JPEG	CWB	CE	JIS	TÜV	RINA
TSW-12KM/ TF-565	Taiwan	3YM H5	3YM H5		3YM H5	III YM(H5)								
TSW-12KM/ SWX 120	Taiwan										√			
TSW-E12/ TF-218	**Taiwan**	**4YQ420M H5 I.V@-50℃≧34J**												
TSW-E12/ TF-650	Taiwan	4Y400TM H5												
TSW-12KH/ TF-210	Taiwan	5YQ420M H5				V Y46M(H5)		KAWL3M H5			√			
TSW-12KH/ TF-218	Taiwan					V Y46M(H5)					√			
TSW-E40/ TF-210	Taiwan	5YQ460M H5				V Y46M(H5)					√			
TSW-E41/ TF-210	Taiwan	5YQ550M H5												
TSW-14HY/ TF-560	Taiwan	4YM H5		4YM H5										
TOPCORE 742B/ ST 55	Taiwan	5YQ690M H5	A5Y69M H5			V Y69MS (H5)	5Y69M (H5)							
TOPCORE 742B(2X)/ ST 55	Taiwan	5YQ690M H5	A5Y69M H5			V Y69MS (H5)	5Y69M (H5)							
TW-2209/ TFS-330	Taiwan	T.S>690MPa, Y.S>450MPa, EL>20%, I.V@-60℃≧40J	2205M	2205		UNS S31803 (1.4462) I.V@-60℃≧40J	S 31803							
TW-308/308L/ TFS-300NB	Taiwan	T.S>520MPa, Y.S>320MPa, EL>35%, I.V@-196℃≧34J												

天泰銲材 TIENTAI ELECTRODE

Certification List of welding consumables

2026.11.01

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		ABS	BV	CCS	CR	DNV	LR	NK	JPEG	CWB	CE	JIS	TÜV	RINA
TW-308L/ TFS-300	Taiwan	T.S>520MPa, Y.S>320MPa, EL>35%, I.V@-196℃≧27J												
TM-77	Taiwan						4Y42S,H5				√		√ 18827	
TM-70C	Taiwan	3YSA H10										√		
TM-80C	Taiwan											√		
TM-85C	Taiwan											√		
TM-88	Taiwan					V Y46MS(H5)								
TWE-711/C1	Taiwan	3YSA H5	SA3YM HH, A3YM HH	3YS H10	3YS H10	III YMS(H10)	3YS,H5 3YM,H5	KSW53Y40G(C)H10 KAW53Y40MG(C)H10	√		√	√	√ 18825	
TWE-711M/M21	Taiwan	3YSA H10				Ⅳ Y46MS(H5)	3YS,H10				√		√ 18826	
TWE-711Ni/C1	Taiwan	4YQ420SA H5												
TWE-715	Taiwan					Ⅲ YMS(H10)					√			
FsbStar 712	Taiwan	3YSA H5												
TWE-81K2	Taiwan					V Y46MS(H5)	5Y46S,H5	KSWL3G(C)H5			√			
ArcStar 81K2	Taiwan					V Y46MS(H5)								
ArcStar 81K2M	Taiwan					V Y46MS(H5)					√			
ArcStar T12	Taiwan					Ⅳ Y46MS H5(H4)					√			
TWE-704-O	Taiwan	AWS A5.20 E70T-4												
TFW-2209P	Taiwan					UNS S31803 (1.4462) I.V@-20℃≧27J								
TFW-308L	Taiwan	AWS A5.22 E308LT1-1					304L					√		
TFW-308LP	Taiwan						304L				√		√ 18831	
TFW-308LTM	Taiwan										√		√ 18828	
TFW-309L	Taiwan	AWS A5.22 E309LT1-1						KW309L				√		
TFW-309L/M31	Taiwan										√			

ITW 天泰銲材 TIENTAI ELECTRODE

Certification List of welding consumables

2026.11.01

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		ABS	BV	CCS	CR	DNV	LR	NK	JPEG	CWB	CE	JIS	TÜV	RINA
TFW-309LMo	Taiwan	AWS A5.22 E309LMoT1-1												
TFW-309LP	Taiwan						SS/CMn				√		√ 18832	
TFW-309LTM	Taiwan										√		√ 18829	
TFW-316L	Taiwan	AWS A5.22 E316LT1-1										√		
TFW-316LP	Taiwan						316L				√		√ 18833	
TFW-316LTM	Taiwan										√		√ 18830	
HOBART 16	Taiwan										√			
HOBART 18	Taiwan	3Y									√			
HOBART 18-1	Taiwan	4Y H10												
HOBART 18-1 H4	Taiwan	4Y400 H5									√			
HOBART M12K	Taiwan										√			
HOBART 70S-6	Taiwan (TM-56)										√			
HOBART 70S-6	Taiwan (TGA-56)										√			
HOBART SDX EM14K										√				
HOBART 308/308L	Taiwan	AWS A5.9-'22 ER308L								√				
HOBART 309/309L	Taiwan	AWS A5.9-'22 ER309L								√				
HOBART 316/316L	Taiwan	AWS A5.9-'22 ER316L								√				
HOBART 307L HISIL	Taiwan	AWS A5.9-'22 ER 18 8 Mn								√				

ITW 天泰銲材 TIENTAI ELECTRODE

Certification List of welding consumables

2026.11.01

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		ABS	BV	CCS	CR	DNV	LR	NK	JPEG	CWB	CE	JIS	TÜV	RINA
HOBART 308L HISIL	Taiwan	AWS A5.9-'22 ER308LSi								√				
HOBART 309L HISIL	Taiwan	AWS A5.9-'22 ER309LSi								√				
HOBART 316L HISIL	Taiwan	AWS A5.9-'22 ER316LSi								√				
HOBART HA-495										√				
HOBART HN-521										√				
SWX 120	Taiwan										√			
SWX 150	Taiwan									√	√			
HOBART M12K/ HA-495	Taiwan	3YM H10												
HOBART M12K/ HN-590	Taiwan	3YM H5				III YM(H5)								
HOBART M12K/ SWX 120	Taiwan										√			
HOBART 12E/ HN-528	**Taiwan**	**4YQ420M H5 I.V@-50°C≧34J**												
HOBART H12K/ HN-521	Taiwan	5YQ420M H5				V Y46M(H5)					√			
HOBART H12K/ HN-528	Taiwan					V Y46M(H5)					√			
HOBART 40E/ HN-521	Taiwan	4YQ460M H5									√			
HOBART SDX S3Ni1Mo0.2-ENi5/ HN-521						V Y46M(H5)								

天泰銲材 TIENTAI ELECTRODE

Certification List of welding consumables

2026.11.01

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		ABS	BV	CCS	CR	DNV	LR	NK	JPEG	CWB	CE	JIS	TÜV	RINA
HOBART 71T	Taiwan	3YSA H5	SA3YM HH, A3YM HH			III YMS(H10)	3YS,H5 3YM,H5				√		√ 18834	
HOBART 71TM	Taiwan	3YSA H10				Ⅳ Y46MS(H5)	3YS,H10				√		√ 18835	
HOBART 75T	Taiwan										√			
HOBART 70T	Taiwan	3YSA H10												
HOBART 77TM	Taiwan						4Y42S,H5				√		√ 18836	
HOBART 9J	Taiwan	4YQ420SA H5												
HOBART 81K2	Taiwan					V Y46MS(H5)	5Y46S,H5				√			
HOBART 81N1M	Taiwan						4Y46S,H5							
HOBART 12J	Taiwan	4Y400SA H5(H4)				IV Y46MS H5(H4)					√			
Fabshield 71K6-NP	Taiwan	4YQ460SA H5(H4)	SA4Y46M H5(H4) A4Y46M H5(H4)			IV Y46MS H5(H4)								
FabCO 308LT0	Taiwan										√		√ 18837	
FabCO 309LT0	Taiwan										√		√ 18838	
FabCO 316LT0	Taiwan										√		√ 18839	
FabCO 308LT1	Taiwan										√		√ 18840	
FabCO 309LT1	Taiwan										√		√ 18841	
FabCO 316LT1	Taiwan										√		√ 18842	

Certification List of welding consumables

2026.11.01

Product	producing area	Inspection agency *												
		ABS	BV	CCS	CR	DNV	LR	NK	JPEG	CWB	CE	JIS	TÜV	RINA

*Remk:

1.Certification Unit：

AWS：American Welding Society
ABS：American Bureau of Shipping
BV：Bureau Veritas
CNS：Chinese National Standards
CR：China Corporation Register of Shipping
CCS：China Classification Society
CWB：Canadian Welding Bureau
CE：European Community (CE) Product

DNV：Det Norske Veritas
NK： Nippon KaijiKyokai
LR：Lloyd's Register
RINA：Registro Italiano Navale
JIS：Japanese Industrial Standards
KR：Korean Register of Shipping
DB： Deutsche Bahn AG
TÜV：Technischer Überwachungs Verein
JPEG：Petrobras Approval

2.Shielding gas：EN ISO 14175：C1（100%CO_2），M12（CO_2 2-5%+Ar Bal.），M13（O_2 0.5-3.0%+Ar Bal.）
M21（CO_2 15-25%+Ar Bal.)，M31(50%CO_2+50%Ar)

新增(1)TSW-E12/TF-218，HOBART E12/HN-528 ABS認證