



## Welding of Railway Vehicles and Components according to EN 15085-2

The Company: MTL Advanced Ltd

Welding Manufacturing Sites: Rotherham Factory

Address: Grange Lane, Brinsworth, Rotherham, S60 5AE, United Kingdom

Is certified to perform welding under certification level CL 1 according to EN 15085-2

Field of application: Fabrication and welding of carbon-manganese steels and aluminium/aluminium alloys in conjunction with new build of railway vehicles and components to existing drawings and customer specifications without design.

Range of Certification:

Welding Process according to EN ISO 4063	Material Group according to CEN ISO/TR 15608	Dimensions
111: MMA	1.1 Steels $R_{eH} \leq 275\text{N/mm}^2$	4mm-32mm
	1.2 Steels $R_{eH} > 275\text{N/mm}^2 \leq 360\text{N/mm}^2$	
131: MIG	22.1, 22.2*, 22.3*, 22.4* Non heat treatable Al alloys combinations between 22.1, 22.2*, 22.3* and 22.4*	3mm – 20mm
	23.1 Heat treatable alloys: Al Mg Si alloys	
135: MAG solid wire	1.1 Steels $R_{eH} \leq 275\text{N/mm}^2$	2.1mm – 60mm
	1.2 Steels $R_{eH} > 275\text{N/mm}^2 \leq 360\text{N/mm}^2$	
136: MAG flux-cored	1.1 Steels $R_{eH} \leq 275\text{N/mm}^2$	3mm – 120mm
	1.2 Steels $R_{eH} > 275\text{N/mm}^2 \leq 360\text{N/mm}^2$	
138: MAG metal-cored wire	1.1 Steels $R_{eH} \leq 275\text{N/mm}^2$	30mm – 120mm
	1.2 Steels $R_{eH} > 275\text{N/mm}^2 \leq 360\text{N/mm}^2$	
141: TIG	1.1 Steels $R_{eH} \leq 275\text{N/mm}^2$	2mm – 18mm
	1.2 Steels $R_{eH} > 275\text{N/mm}^2 \leq 360\text{N/mm}^2$	1.5mm – 6mm
	21 Pure aluminium $\leq 1\%$ impurities or alloy content	3mm – 12mm
	22.1, 22.2*, 22.3*, 22.4* Non heat treatable Al alloys combinations between 22.1, 22.2*, 22.3* and 22.4*	
	23.1 Heat treatable alloys: Al Mg Si alloys	

\*Provided Al-Mg Filler material is used

Responsible Welding Coordinator: Vasyi Kruk (d.o.b 10<sup>th</sup> January 1980) (Level A) EngTech MWeldI, Certified European/International Welding Engineer.

Deputy Responsible Welding Coordinator: John George Cheetham (d.o.b 9<sup>th</sup> December 1963) (Level C)

**Certificate Number: CWRVC/011/GB**

**Valid Until: 4 August 2019**  
(subject to satisfactory periodic surveillance)

**Issued On: 9 August 2016**

**TWI Certification Ltd, Chief Executive**

Issued by: TWI Certification Ltd, Granta Park, Great Abington, Cambridge, CB21 6AL, UK