



Certificate No : MD00/2705/0002/PB

AEL APPARATEBAU GMBH LEISNIG  
Döbelner Strasse 9  
D-04703 Leisnig  
Germany

has been approved as a manufacturer in accordance with the requirements of Lloyd's Register for :-

Fusion Welded Pressure Vessels Class 2.1

This approval is subject to compliance with the Lloyd's Register Rules for the Classification of Ships. The full details of the processes, products and grades to which this approval applies are given in the Appendix of this certificate.

Lloyd's Register is to be notified of any change that may affect the validity of this Certificate.

This Certificate is issued to the above manufacturer and is valid until the date given below.

Valid Until : 18 August 2019  
Date of Issue : 31 October 2016

A handwritten signature in blue ink, appearing to read "Jaspal Nirankari".

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**Jaspal Nirankari**  
Principal Welding Specialist to Lloyd's Register EMEA  
A member of the Lloyd's Register group



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Appendix 1

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#### Fusion Welded Pressure Vessels Class 2.1

Category	Grades	Supply condition	Maximum thickness (mm)	Impact test temperature (degrees Celcius)
Group A	SAW	As Welded	20.0	-29
	GTAW	As Welded	20.0	-29
Group B	SMAW	As Welded	10.0	-20
	GTAW	As Welded	10.0	-20

GTAW process approved only for the welding of root-run.

Valid Until : 18 August 2019  
Date of Issue : 31 October 2016

A handwritten signature in blue ink, appearing to read 'Jaspal Nirankari', is written over a horizontal line.

**Jaspal Nirankari**  
Principal Welding Specialist to Lloyd's Register EMEA  
A member of the Lloyd's Register group