

APPROVAL OF MANUFACTURER CERTIFICATE

Certificate No: AMMM00001MJ Revision No: 2

This is to certify:

That Amex Alloys Private Ltd 289/2, Sathy Road, Kunnathur Pudur Post, Coimbatore-641 107, Tamil Nadu, India

is an approved manufacturer of **Steel Castings**

in accordance with DNV rules for classification – Ships DNV class programme – DNV-CP-0246 Steel castings

and the following particulars:

Castings for boilers, pressure vessels and piping systems, Application area Stainless steel castings Steel type Carbon and carbon-manganese, Allov. Austenitic stainless, Ferritic-austenitic (Duplex) stainless Casting method See page 2 1 100 kg Max. weight Max. wall thickness See page 2 See page 2 Heat treatment condition

Manufacturer(s) approved by this certificate is/are accepted to deliver according to DNV GL, DNV and GL rules. Materials to be applied to DNV classed object shall fulfill the material requirements in the applicable DNV class rules.

Issued at Hamburg on 2023-05-24

This Certificate is valid until **2026-06-30**. DNV local unit: **India CMC & NB**

Approval Engineer: Andreas Koch

for DNV

Thorsten Lohmann Head of Section

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Job Id: 263.1 Certificate No: AMMI Revision No: 2

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Particulars of the approval

Castings for boilers, pressure vessels and piping systems

Steel type	Grade ³⁾	Casting method ¹⁾	Max. weight [kg]	Max. wall thickness [mm]	Heat treatment condition ²⁾
C and C-Mn	NV C450H, NV C490H	SC	1 100	200	N, NT, QT
Alloy	NV C0.5Mo, NV C1Cr0.5Mo, NV C2.25Cr1Mo	SC	1 100	200	QT

Stainless steel castings

Steel type	Grade ³⁾	Casting method ¹⁾	Max. weight [kg]	Max. wall thickness [mm]	Heat treatment condition ²⁾
Austenitic	GX 2 CrNi 18 10 (304L) GX 5 CrNi 19 9 (304) GX 6 CrNiNb 19 10 (347) GX 2 CrNiMo 19 11 2 (316L) GX 5 CrNiMo 19 11 2 (316) GX 5 CrNiMo 19 11 3 (317)	SC	1 100	200	SHT
Ferritic- austenitic	GX 2 CrNiMoN 22 5 3	SC	1 100	200	SHT

Remarks:

- ¹⁾ SC: Sand Casting
- ²⁾ SHT: Solution Heat Treated (Solution Annealing) N: Normalized QT: Quenched and tempered
 - NT: Normalized and tempered
- ³⁾ Incl. equivalent grades in acc. to other standards

Special conditions:

- Including austenitic stainless steel for low-temperature applications