APPROVAL OF MANUFACTURER CERTIFICATE

Certificate No:
AMMM0000272
Revision No:
2

This is to certify:

That

ALCHEMIA S.A. Oddzial Rurexpol
ul. Trochimowskiego 27 42-207 Częstochowa,
Poland

is an approved manufacturer of
Steel Pipes and Fittings

in accordance with
DNV rules for classification – Ships
DNV class programme – DNV-CP-0252 Steel pipes and steel pipe fittings

and the following particulars:

Product	**Pipes**
Application area	**Pipes for pressure systems**
Steel type	**Carbon and carbon-manganese**
Manufacturing method	**Seamless**
Max. outer diameter	**273 mm**
Max. wall thickness	**32 mm**
Heat treatment condition	**See page 2**

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 **2024-07-02**

This Certificate is valid until **2027-06-30**.
DNV local unit: **Katowice CMC**

Approval Engineer: **Stefan Röhr**

for **DNV**

This document has been digitally signed and will therefore not have handwritten signature
Christian Wildhagen

LEGAL DISCLAIMER: Unless otherwise stated in the applicable contract with the holder of this document, or following from mandatory law, the liability of DNV AS, its parent companies and their subsidiaries as well as their officers, directors and employees ("DNV") arising from or in connection with the services rendered for the purpose of the issuance of this document or reliance thereon, whether in contract or in tort (including negligence), shall be limited to direct losses and under any circumstance be limited to 300,000 USD.

Particulars of the approval

Pipes for pressure systems

Steel type [2)]	Manufacturing method [1)]	Max. outer diameter [mm]	Max. wall thickness [mm]	Heat treatment condition
C and C-Mn	HFS, CFS	273	32	acc. to standard

Remarks:

1) HFS: Hot finished seamless; CFS: Cold finished seamless
2) Suitable pipe grades shall be selected from the following recognized standards:
ISO 9329 Parts 1 and 2, ISO 9330 Parts 1 and 2, EN 10216 Parts 1 to 3, EN 10217 Parts 1 to 3, EN 10305 Part 1 and 2, ASTM A53, ASTM A106, ASTM A135, ASTM A335, JIS G3454, JIS G3455, JIS G3456 and JIS G3458