Certificate no.:
TAW00005VS

TYPE APPROVAL CERTIFICATE

This is to certify:

that the additive manufacturing metal powder feedstock

with trade name
forAM® 1.3964 20-63 VG

Manufacturer
Höganäs Germany GmbH
Säckinger Str. 51
79725 Laufenburg, Germany

is found to comply with
DNV rules for classification – Ships
DNV class programme DNV-CP-0291 – Type approval – Additive manufacturing feedstock

with this approval
DNV grade: **NV AM-SR-PBF-LB-1.3964**

Manufacturing process: **inert gas atomization**

Typical powder properties:

Nominal particle range [µm]	**20-63** (max 1% oversize, max 3% undersize)
Particle size (ISO 13322-2) [µm]	X10: **27**; X50: **41**; X90: **60**

Remarks:
The type approval is exclusively valid for the manufacture of powder feedstock for thyssenkrupp Marine Systems GmbH, 24143 Kiel, Germany.

Product(s) approved by this certificate is/are accepted for installation on all vessels classed by DNV.

Issued at **Hamburg** on **2025-02-01**
This Certificate is valid until **2030-01-31**. for **DNV**
DNV local unit: **Essen**

Approval Engineer: **Eva Junghans**

Any significant change in design or construction may render this Certificate invalid.
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