

H2 READY CERTIFICATE n° 02/24/GS/sb_rev.03

1. General:

Name and address of the Manufacturer factory: INTERPIPE ROMAN S.A. Stefan cel Mare, 15A/1, 611038 Roman, Neamt County, Romania.

Former name and address of the Manufacturer factory: ArcelorMittal Tubular Products Roman S.A. Stefan cel Mare, 15A/1, 611038 Roman, Neamt County, Romania.

Type(s) of product manufactured: SEAMLESS PIPE.

H2 Ready tests as per Laboratory certificate: LETOMECC certificate rev.01 of 03/07/2024 emitted by LETOMECC S.R.L. - via Giovanni Pisano, 55 | 56123 Pisa (PI) - Italy | VAT IT 02025720505.

2. Type Approval scope:

Hydrogen technical compliance verification and issuance of H2 ready certificate for the use of the product in natural gas mixtures with hydrogen percentage up to 100% pure hydrogen at 45 bar.

To check the material compatibility, the test is made with samples of the same material in a reference environment (N₂) to obtain a mean value of the tensile stress at the notch (NTSR), and in hydrogen environment to obtain NTSH. If the ratio $RNTS = NTSH/NTSR$ is bigger than 0,50 the material is considered eligible for qualification use.

3. Type description:

Tested product#1:

seamless pipe (steel grade BN/L245N/BNE/L245NE/X42N/L290N/X42NE/L245NE) 323,8 x 17,48:

- Outside diameters range: 168,3 mm ÷ 406,4 mm
- Wall thickness range: 6,30 mm ÷ 21,44 mm
- Material standard: API 5L ED.46-2018/PSL2; ISO 3183-2019
- Starting material: Hot finished, steel 35M.

Tested product #2:

seamless pipe (steel grade X52N/L360N/X52NE/L360NE) 219,1 x 14,26 :

- Outside diameters range: 168,3 mm ÷ 406,4 mm
- Wall thickness range: 6,30 mm ÷ 21,44 mm
- Material standard: API 5L ED.46-2018/PSL2; ISO 3183-2019
- Starting material: Hot finished, steel G52N.



Operating conditions :

- 100 % hydrogen
- Ambient temperature: room temperature
- Operation pressure of the pipeline: max. 45 bar.

4. Conclusion:

Following documental review and witness of hereafter tests:

Slow Strain Rate Test (SSRT) within hollow specimen according to ANSI/CSA CHMC 1-2014.

The tests have been performed on six (6) specimens for each material, three (3) in nitrogen and three (3) in 100% hydrogen (99.9999% grade) at room temperature at 45 bar.

The undersigned, Bureau Veritas Inspector, certifies that the above materials meet the applicable requirements.

The work demonstrates the tightness and suitability for use in blending with up to 100% hydrogen and at maximum pressure of 45 bar.

This approval will be valid until no relevant changes are made to the facility, in production and its quality system.

In relation to the H2 ready certificate, its validity will persist until there are no relevant alterations to materials and treatments, and for a maximum duration of 3 years.

This document excludes uses with phenomena related to the stationary nature of the gas within the pipelines assembled with the API 5L 35M and G52S pipes that may lead to separation of gases and consequent localized accumulation of hydrogen.



Attachments: (all the examined documents with BV "Reviewed" stamp)

- 2023FB-374_Evaluation of API 5L 35M and API 5L G52S pipe materials used for high-pressure hydrogen by SSRT within hollow specimen report_rev01.
- Inspection certificate 3.1 acc. to EN10204: 2005 B 28329/1 of 14/05/2024 of API 5L X52.
- Inspection certificate 3.1 acc. to EN10204: 2005 B 29578/1 of 14/05/2024 of API 5L OLT 35M and X42.

Inspected by:

Name: Stefano Bagalini

Signature:

Checked by:

Name: Giuseppe SIGNORETTA

Signature:

Date of issue: 08/06/2026

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Distribution : CLIENT

MANUFACTURER