

CERTIFICATE

**Quality-Assurance System for material manufacturer
according to directive 2014/68/EU**

Certificate no.: N-CR-TUVNORD-2025-0032-R00

**Name and address
of manufacturer:**

**Borusan Birleşik Boru Fabrikaları San. Ve Tic. A.Ş.
Ata Mah. Sanayi Cad. No:56/68
Gemlik/Bursa/Türkiye**

Herewith we certify that the manufacturer has established and applies a **quality-assurance system related to the material**. This QA System has been subjected to a specific assessment acc. to directive 2014/68/EU, annex I, point 4.3 with regard to the materials mentioned within the scope of approval.

Approved acc. to directive
2014/68/EU:

**QA-System in relation to materials,
EN 764-5, section 4.2 and AD 2000-Merkblatt W0**

Certification file no:

2435660852

Audit report file no:

N-RP-CR-TUVNORD-2025-0031-R00

Scope of approval:
(product / material)

**Welded non alloy and alloy steel tubes
(for detail see annex)**

Production site:

Ata Mah. Sanayi Cad. No:56/68 Gemlik/Bursa/Türkiye

The certificate is valid until:

02.10.2028

only valid with a certificate in force acc. to EN ISO 9001

İstanbul, 03.10.2025

Certifier for Pressure Equipment of
TÜV NORD Turkey Teknik Kontrol ve
Belgelendirme A.Ş.

Mehmet SELÇUK

Annex: scope of approval

	TÜV NORD Turkey Teknik Kontrol ve Belgelendirme A.Ş.	Revision No
		00
	Annex to Certificate	Revision Date
		01.08.2023

Basınçlı Kaplar Yönetmeliği 2014/68/EU EK 1 Bölüm 4.3 ve/veya AD 2000 W0'a göre malzeme üretici onay kapsamı
Scope of approval for material manufacturer acc. to Pressure Equipment Directive 2014/68/EU Annex I sec. 4.3 and AD 2000 W0

Sertifika Eki / Annex to Certificate

Firma / Company: Borusan Birleşik Boru Fabrikaları San. Ve Tic. A.Ş. DGRL-Nr.: N/A Tarih/ Date : 3.10.2025
Dosya / File: N/A

Adres / Address: Ata Mah. Sanayi Cad. No:56/68 Gemlik/Bursa/Türkiye AD 2000 W0 Cert. Nr.: N-CR-TUVNORD-2025-0032-R00 Dosya / File: 2435660852

Nu.	Malzeme İsimlendirmesi	Spesifikasyon	Kondisyon	Malzeme Formu	Ölçü / Dimension	Ø[mm] [kg/t]	Teknik Gereksinimler	Bulgu / Remarks
No.	Material Type	Specification	Condition	Product Form	Kalınlık [mm] / Thickness	Çap [mm] / Diameter	Techn. Requirements	*Particular material appraisal (PMA) acc. to Pressure Equipment Directive is required for Non-homanized material standart used.
1	2	3	4	5	6	7	8	9
1.1	HFW WELDED PIPE acc. to Pressure Equipment Directive Annex I sec. 4.3 P195 TR1; P195 TR2; P235 TR1; P235 TR2; P265 TR1; P265 TR2	EN 10217-1	2), 3) 4)	HFW welded steel tube	2.0 to 12.7	21.3 to 339.7 21.3 to 88.9	Directive 2014/68/EU	see Remarks (i), (iii), (v), (vii) 2) cold form & as welded (Route 1a, 2a) 3) cold form & NW or NP (Route 1b, 1c, 2a, 2b) 4) cold form & hot stretch (Route 3)
1.2	P195 GH TC1; P235 GH TC1; P265 GH TC1	EN 10217-2	5) 6)	HFW welded steel tube	2.0 to 12.7	21.3 to 339.7 21.3 to 88.9	Directive 2014/68/EU	see Remarks (i), (iii), (v) 5) cold form & NW or NP (Route 1, 2a) 6) cold form & hot stretch (Route 2c)
1.3	P355N; P355NH	EN 10217-3	7) 8)	HFW welded steel tube	2.0 to 12.7	21.3 to 339.7 21.3 to 88.9	Directive 2014/68/EU	see Remarks (i), (iii), (v) 7) cold form & NW or NP (Route 1a, 1b, 2a) 8) cold form & hot stretch (Route 2c)
1.4	PSL1 Max. Grade L485 or X70; PSL2 Max. Grade L485 or X70	EN ISO 3183	9) 10) 11) 12)	HFW welded steel tube	2.0 to 12.7	114.3 to 339.7 114.3 to 219.3 21.3 to 219.3 21.3 to 88.9	Directive 2014/68/EU	see Remarks (ii), (iv), (v) 9) cold forming & heat treating of weld area only 10) cold forming & heat treating of weld area only and stress relieving of entire pipe 11) cold forming & normalizing 12) cold forming & hot stretch

Explanation: A = Solution annealed and quenched; L = Solution annealed;
N = Normalized; S = Stress relieved; TM = Thermo-mech. Treated; U = Not annealed; V = Quenched and tempered
CR = Controlled rolled; G = Annealed

Sayfa Page 1 / 2

Yönetmelik 2014/68/EU'ya göre malzeme kullanmak için bilgi / Hints for materials use acc. to Directive 2014/68/EU :
Özel malzeme operasyon istekleri basınçlı kap üreticisi ve ilgili yetkilendirilmiş kuruluş tarafından onaylanmalıdır. /
The specific material operation conditions have to be approved by pressure equipment manufacturer and by the notified body in charge.

	TÜV NORD Turkey Teknik Kontrol ve Belgelendirme A.Ş	Revision No
		00
	Annex to Certificate	Revision Date
		01.08.2023

Basınçlı Kaplar Yönetmeliği 2014/68/EU EK 1 Bölüm 4.3 ve/veya AD 2000 W0'a göre malzeme üretici onay kapsamı
Scope of approval for material manufacturer acc. to Pressure Equipment Directive 2014/68/EU Annex I sec. 4.3 and AD 2000 W0

Sertifika Eki / Annex to Certificate Tarih/ Date : 3.10.2025
 DGRL-Nr.: N/A Dosya / File: N/A
 Firma / Company: Borusan Birleşik Boru Fabrikaları San. Ve Tic. A.Ş.
 Adres / Address: Ata Mah. Sanayi Cad. No:56/68 Gemlik/Bursa/Türkiye AD 2000 W0 Cert. Nr.: N-CR-TUVNORD-2025-0032-R00 Dosya / File: 2435660852

Nu.	Malzeme İsimlendirmesi	Spesifikasyon	Kondisyon	Malzeme Formu	Ölçü / Dimension	Ø[mm] [kg/t]	Teknik Gereksinimler	Bulgu / Remarks
No.	Material Type	Specification	Condition	Product Form	Kalınlık [mm] / Thickness	Çap [mm] / Diameter	Techn. Requirements	*Particular material appraisal (PMA) acc. to Pressure Equipment Directive is required for Non-homanized material standart used.
1	2	3	4	5	6	7	8	9
1.5	PSL1 Max. Grade L485 or X70; PSL2 Max. Grade L485 or X70	API 5L	9) 10) 11) 12)	HFW steel pipe	2.0 to 12.7	114.3 to 339.7 114.3 to 219.3 21.3 to 219.3 21.3 to 88.9	Directive 2014/68/EU	see Remarks (ii), (iv), (v) 9) cold forming & heat treating of weld area only 10) cold forming & heat treating of weld area only and stress relieving of entire pipe 11) cold forming & normalizing 12) cold forming & hot stretch
2.1	HFW WELDED PIPE acc. to AD 2000-Guideline W0 P195 TR2; P235 TR2; P265 TR2	EN 10217-1	3) 4)	HFW welded steel tube	2.0 to 12.7	21.3 to 339.7 21.3 to 88.9	Directive 2014/68/EU AD2000 W4 *)	see Remarks (i), (iii), (v)
2.2	P195 GH TC1; P235 GH TC1; P265 GH TC1	EN 10217-2	5) 6)	HFW welded steel tube	2.0 to 12.7	21.3 to 339.7 21.3 to 88.9	Directive 2014/68/EU AD2000 W4 *)	see Remarks (i), (iii), (v), (viii)
2.3	P355NH; P355NH	EN 10217-3 & VdTÜV- Werkstoffblätter 354/1	7) 8)	HFW welded steel tube	2.0 to 12.7	21.3 to 339.7 21.3 to 88.9	Directive 2014/68/EU AD2000 W4, W10 *)	see Remarks (i), (iii), (v), (ix)

Explanation: A = Solution annealed and quenched; L = Solution annealed;
 N = Normalized; S = Stress relieved; TM = Thermo-mech. Treated; U = Not annealed; V = Quenched and tempered
 CR = Controlled rolled; G = Annealed

REMARKS: (i) For pressure equipment in categories II, III, and IV of Pressure Equipment Directive, the welding operating procedures and the welding personnel shall be approved by a notified body (NoBo) or by a recognised third-party organisation (RTPO). Tubes not conforming to this requirement shall be marked "C1". (refer to (ii) For pressure equipment in categories II, III, and IV of Pressure Equipment Directive, the welding operating procedures and the welding personnel shall be approved by a notified body (NoBo) or by a recognised third-party organisation (RTPO). Tubes not conforming to this requirement shall be properly marked and (iii) For pressure equipment in categories III and IV of Pressure Equipment Directive, the non destructive personnel shall be approved by a recognised third-party organisation (RTPO). Tubes not conforming to this requirement shall be marked "C2", unless a requirement to mark "C1" applies. (refer to EN 10217-1 (iv) For pressure equipment in categories III and IV of Pressure Equipment Directive, the non destructive personnel shall be approved by a recognised third-party organisation (RTPO). Tubes not conforming to this requirement shall be properly marked and identified.
 (v) When the use of the welded tube is limited to pressure equipment in category I of Pressure Equipment Directive, a statement in the test report confirming that personnel and welding procedures are qualified according to suitable internal operating procedures is sufficient.
 (vi) Requirements of AD-2000 HP 7/2 shall be check to verify that heat treatment is not required for the specific deformation percentage.
 (vii) Tubes made to material grades P195TR1, P235TR1 & P265TR1 are unlikely to support the essential requirements of Pressure Equipment Directive unless other criteria are taken into account, see Annex I section 7.5 of the Directive. (refer to EN 10217-1 Table 4 note e).
 (viii) An impact test shall be carried out from nominal wall thickness ≥10mm (refer to AD-2000 W4 paragraph 3.6)
 (ix) Tubes shall be as specified EN 10217-3 in conjunction with VdTÜV-Werkstoffblätter 354/1. For tubes of qualities with elevated temperature properties and high-impact strength at low temperatures, if the proof stresses at elevated temperature are to apply, one hot tensile test per cast is required at working temperature (rounded up to the nearest 10 K), or at 400 °C (refer to AD-2000 W4 paragraph 2.2.6 & paragraph 3.7).

Yönetmelik 2014/68/EU'ya göre malzeme kullanmak için bilgi / Hints for materials use acc. to Directive 2014/68/EU :
 Özel malzeme operasyon istekleri basınçlı kap üreticisi ve ilgili yetkilendirilmiş kuruluş tarafından onaylanmalıdır. /
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