



BFN Forgings Private Limited

(Formerly known as Bebitz Flanges Works Private Limited)

Survey No.140/2,Saravali Boisar-Taluka Palghar-Thane 401501-Maharashtra,INDIA
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Abnahmeprüfzeugnis 3.1/ Inspection Certificate 3.1 / Certificate de reception 3.1
nach(A02)/acc.DIN EN 10204 :2005 Nr.(A03)/No.100000044854 Datum(Z02)/Date 27-02-2023

Zeichen des Herstellers(A04)
Manufacturer's brand



Stempel des Abnehmers(Z03)
Stamp of the testing engineer



Überprüft als Hersteller nach AD-Merkblatt W0. Approved as manufacturer acc. AD-Merkblatt W0.
Zertifiziert nach DGR 2014/68/EU durch TÜV CERT Zertifizierungsst. für Druckgeräte der TÜV NORD GmbH Co KG, Benannte Stelle
Nr. 0045. / Certified acc. to PED 2014/68/EU, certifying body for pressure equipment TÜV NORD GmbH Co KG, registration no. 0045.

Besteller (A06) Customer	TEXAS PIPE & SUPPLY CO. 2330 HOLMES ROAD HOUSTON - 77051-1098 Texas USA	Bestell-Nr (A07) / Order-No	339487-01
		Auftrag (A08) / Order	950000617
		Lieferschein / Delivery No.	800004671
		Position (B07.1) / Item	000027

Stck (B08) Quantity	Bezeichnung (B01; B09 - B11) Product	Schmelze/Prüflos (B07) Heat no./Test no.
274	1-1/2 inch Slip On Welding Flange 150 Class Raised Face	CL671

Material(B02; B05) 2- F 304/F 304L - ASTM A 182M-21 / ASME SA-182M-21
SOLUTION ANNEALED AT 1080 °C AND QUENCHED IN WATER

Anford.(B03) Requirements ASME B 16.5-2020
NACE MR0175-2015 / MR0103-2015 - DIN EN ISO 15156-3 : 2015
2019 ASME BOILER & PRESSURE VESSEL CODE - SECTION II PART A
PMI-TESTED 100%, IGC-TEST ACC. TO DIN EN ISO 3651-2 TEST A / ASTM A 262 PRACTICE E

Schmelzenanalyse (C71 - C92) /Analysis

Erschmelzung (C70) / Melting process E

Analysis	C	Si	Mn	P	S	Cr	Ni	Ti	Mo	Nb	V	N	Cu	Al	PREN
Ladle Analysis	0.02	0.27	1.61	0.036	0.021	18.24	8.07	0	0.40	0	0	0.075	0.33	0	20.84

Mechanische Prüfungen / Mechanical tests $CEV = C + \frac{Mn}{6} + \frac{V + Mo + Cr}{5} + \frac{Ni + Cu}{15}$ PREN = Cr + 3,3 * Mo + 16 * N

Probenlage (C02): q/t / Position of Specimen: q/t Tensile Test - ASTM A 370	Io = 4Do	KBV / Charpy Impact Test EN ISO 148-1 (V-notch, Position of specimen: q/t)	Harte (C32) Hardness ISO 6506-1
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Temp (C03) ° C	Streckgr. (C11) / Yield strength 0,2% N/mm ²	Yield strength 1,0% N/mm ²	Zugfestigk. (C12) Tensile strength N/mm ²	Dehng. (C13) Elongation %	Einschnürg. Red. of area %	Temp (C03) ° C	Einzelwerte (C42) Single values J	MW (C43) Average J	HBW>2pcs HBW(10/3000)
20	MIN205		MIN 515	MIN 30	MIN 50	20		0	
20	321.23	369.82	573.41	58.657	67.46	20	174,170,184	176	157

ALL MATERIAL SUPPLIED IS CERTIFIED TO BE FREE OF MERCURY CONTAMINATION AND NO MERCURY BEARING EQUIPMENT WAS USED DURING MANUFACTURING AND COUNTRY OF MELT/ORIGIN : INDIA

Customer material

Besichtigung und Ausmessung ohne Beanstandungen. (D01) / Results of inspection and dimension without objections.
Die gestellten Anforderungen sind erfüllt. (Z01) / The product sampled, Inspected ,tested and meets the requirement.

AMIT KUMAR,
Inspection Representative of the Manufacturer (Z02)
BFN Forgings Private Limited, Sarawali, Boisar, INDIA



F - QAC-09-04