



Aalco Dyfed
Units 3-4
Capel Hendre Ind Est
Ammanford
SA18 3SJ
United Kingdom

Telephone: 01269 842044
Fax: 01269 845276

VAT Registration No. GB 711 1155 91

PLEASE NOTE YOU
ARE SIGNING FOR
TEST CERTIFICATES

Deliver To

S4 STAINLESS INDUSTRIAL & MARINE LIMITED
UNIT 2, JAMES COURT,
SWANSEA ENTERPRISE PARK,
SWANSEA
WALES
SA1 7DA
United Kingdom

Customer		Issue Date	Test Certs Required	
STA04D		06/08/2026		
Product	Quantity	Description		
009030DD	10 ea	Your Reference 092804 S/S FLANGE EN1092 304L 8" PN 16/01 RF S.O. EN1092 Batch ID _____ Cast No. _____ Cert No. _____ Pieces _____ QA _____ MC0528115-003-001 NY250216AT02 XFCH20251124-4 10 IRF: SO0036069DD-1/7' Salesperson: ddhb' Due date: 06/08/2026' Pr.Ord: PRO0067277DD'		
008818DD	1 ea	Your Reference 092804 S/S FLANGE EN1092 316L 1.1/2" PN 16/05 RF BLIND EN1092 Batch ID _____ Cast No. _____ Cert No. _____ Pieces _____ QA _____ MC0512795-001-001 FKD35 12/250070090/27 1 IRF: SO0036069DD-1/5' Salesperson: ddhb' Due date: 06/08/2026' Pr.Ord: PRO0067276DD'		
008716DD	1 ea	Your Reference 092804 S/S FLANGE EN1092 316L 1.1/2" PN 16/01 RF S.O. EN1092 Batch ID _____ Cast No. _____ Cert No. _____ Pieces _____ QA _____ MC0511515-001-001 HT1385A3AK 25120021 1 IRF: SO0036069DD-1/4' Salesperson: ddhb' Due date: 06/08/2026' Pr.Ord: PRO0067275DD'		
003851DD	1 ea	Your Reference 092804 S/S BWF A403 316L WP-W 2"-1.1/2" 10S CON-RED ASTM A403:DIMS ANSI B16.9 Batch ID _____ Cast No. _____ Cert No. _____ Pieces _____ QA _____ MC0513565-001-001 CXM070074 20251215-10 1 IRF: SO0036069DD-1/2' Salesperson: ddhb' Due date: 06/08/2026' Pr.Ord: PRO0067274DD'		

RECEIVED IN GOOD CONDITION	Customer Signature:	Print name:	Date:
Your signature on this page confirms receipt of all materials received against the total number of pages, as indicated above.			
You are also signing for the receipt of test certificates, where requested.			

Aalco Metals Ltd is a company registered in England No. 3551533
Registered Office: Parkway House, Unit 6, Parkway Industrial Estate, Pacific Avenue,
Wedsbury, WS10 7WP

142.59968000000003





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Customer		Issue Date	Test Certs Required	
STA04D		06/08/2026		
Product	Quantity	Description		
008818DD	1 ea	S/S FLANGE EN1092 316L 1.1/2" PN 16/05 RF BLIND EN1092 Batch ID _____ Cast No. _____ Cert No. _____ Pieces _____ QA _____ MC0512795-001-001 FKD35 12/250070090/27 1 IRF: SO0036069DD-1/5' Salesperson: ddhb' Due date: 06/08/2026' Pr.Ord: PRO0067276DD'		092804
008716DD	1 ea	S/S FLANGE EN1092 316L 1.1/2" PN 16/01 RF S.O. EN1092 Batch ID _____ Cast No. _____ Cert No. _____ Pieces _____ QA _____ MC0511515-001-001 HT1385A3AK 25120021 1 IRF: SO0036069DD-1/4' Salesperson: ddhb' Due date: 06/08/2026' Pr.Ord: PRO0067275DD'		092804
003851DD	1 ea	S/S BWF A403 316L WP-W 2"-1.1/2" 10S CON-RED ASTM A403:DIMS ANSI B16.9 Batch ID _____ Cast No. _____ Cert No. _____ Pieces _____ QA _____ MC0513565-001-001 CXM070074 20251215-10 1 IRF: SO0036069DD-1/2' Salesperson: ddhb' Due date: 06/08/2026' Pr.Ord: PRO0067274DD'		092804

The quality status of this material is as follows:

- A. Certified material from an ISO 9001 registered source
- B. Uncertified material from an ISO 9001 registered source
- C. Certified material from a company approved source
- D. Uncertified material from a company approved source

E. & O.E.

This contract is subject to our Conditions of Sale which are available on request or by visiting our web site (<http://www.aalco.co.uk>).

Reference to "The Company" overleaf refers to Aalco Metals Ltd

Certified that the supplies detailed hereon have been subject to the procedures of our ISO9001 registered Quality System.

Aalco Metals Ltd is a company registered in England No. 3551533
Registered Office: Parkway House, Unit 6, Parkway Industrial Estate, Pacific Avenue,
Wednesbury, WS10 7WP

142.59968000000003



mc-528115-03

0034-0023

HEBEI XINFENG HIGH-PRESSURE FLANGE AND PIPE FITTING CO., LTD.

INSPECTION CERTIFICATE & TEST REPORT-EN 10204 3.1

MTR NO.:	XFCH20251124-4
INVOICE NUMBER:	XFGU25-323336
DATE:	Nov.24.2025
MATERIAL SPEC.:	ASME SA 182 and ASTM A182
	EN10222-5-2017/ASME SECT.II PART A-2023
STEEL GRADE:	F304/304L 1.4301/1.4307
DIMENSIONAL SPEC.:	EN1092-1:2018

STAINLESS STEEL FORGED FLANGES

DELIVERY CONDITION: HOT FORGED AND FULLY MACHINED

ISO 9001:2015 REG. NO. 5723010010815 EXPIRY DATE APRIL 21, 2026 & APPROVED ACCORDING TO AD 2000 MERKBLATT W0 & CERTIFIED ACCORDING TO PED (2014/68/EU) BY CERTIFICATION BODY FOR PRESSURE EQUIPMENT OF D1202 CHN/C-172692

ORDER NO: PO108851

ITEM DESCRIPTION	QUANTITY (PCS)	HEAT NUMBER	Specimen No.
1 DN50 PN16 SORF TYPE01B EN1092-1 ASTM A182 F304/L	200	NY241104AT13	HBXF25091503
2 DN65 PN16 SORF TYPE01B EN1092-1 (4BH) A182 F304/L	75	NY241104AT13	HBXF25091503
3 DN80 PN16 SORF TYPE01B EN1092-1 ASTM A182 F304/L	100	NY241104AT13	HBXF25091503
4 DN125 PN16 SORF TYPE01B EN1092-1 ASTM A182 F304/L	100	NY250216AT02	HBXF25091518
5 DN200 PN16 SORF TYPE01B EN1092-1 ASTM A182 F304/L	50	NY250216AT02	HBXF25091518
6 DN125 PN16 BLIND RF TYPE05B EN1092-1 ASTM A182 F304/L	5	NY250216AT02	HBXF25091518

CHEMICAL ANALYSIS

Heat No.	%C	%Mn	%Si	%S	%P	%Cr	%Ni	%N
	≤0.03	≤2.00	≤1.00	≤0.015	≤0.045	18-19.5	8-10.5	≤0.10
NY241104AT13	0.019	1.35	0.42	0.003	0.036	18.52	8.01	0.00
NY250216AT02	0.026	1.56	0.37	0.002	0.032	18.56	8.01	0.00

MECHANICAL PROPERTIES

Sample location:Mid thickness-forging		Test Temp:RT	Test Direction:Tr	Sample Shape Round		ASTM E10				
Specimen No.	Tensile Strength	Yield Strength	Elongation%	Reduction of Area	Hardness	Charpy V-Notch 10×10×35mm Values At + 20°C (Joules)				
		Rp=0.2%								(C43)
	MPA	MPA	Lo=5D	%	HR	1	2	3	AVG	
	515-700	≥ 205	≥ 35	≥ 50	≤ 187	≥ 60				
HBXF25091503	566	260	41	58	160	70	72	73	74	
HBXF25091518	570	262	42	59	162	73	75	75	74	

Other applicable Specifications: NACE MR 0175-2021/ISO 15156-2020 NACE MR 0103-2015 & MATERIAL CONFORMS TO W2/W9/W10

Melting Process: Electrical induction furnace & Argon Oxygen decarburization (IRS) Concast

Heat Treatment	:Solution Annealed at 1080°C and water Quenched
Dimensional Inspection	:Conform with the specification(100% Inspected)
Surface quality	:Joining face Ra 3.2-12.5µm
PMI Test	:No objection (100% tested with mobile spectro)
Corrosion Test	:Passed IGC test in accordance with DIN EN ISO 3651-2 & ASTM A262 Practice E
Micro Observation	:No carbide precipitation observed on grain boundaries
Radioactivity Test	:We here by certify that all the material is free from radioactive contamination
Mercury Contaminat	:Free from mercury contamination

河北鑫丰高压法兰管件有限公司
HEBEI XINFENG HIGH-PRESSURE
FLANGE AND PIPE FITTING CO., LTD.

张振泉

We certify that the above material has been inspected and tested and complies with the order/contract.

The material is manufactured and it is of CHINA origin. The material does not contain steel products originated in Russia as mentioned in the Annex XVII of the EU regulation n° 833/2014 and further amendment.

CELBACH
Q.A.
VERIFIED

MATERIAL TEST CERTIFICATE

Inspection Certificate acc. to EN10204-3.1

The Quality Management System of ISO9001-2015 and PED 2014/68/EU, Annex 1 Paragraph 4.3 have been approved by BSI.

Certificate No.: 0034-0023	Date: 24 NOV 25
Products: Forged Stainless Steel Flanges	
Dimensional Specification: EN1092-1 2018 / ASME B16.5 2025	
Heat Treatment Type: Solution Annealed & Quenched (1080°C)	
Material Grade: EN10222-5 1.4301/1.4307/ASTM A182 F304/304L, NACE MR0103 / NACE MR0175	

A. Items and Quantities Certified

Item No.	Heat No.	Description	Quantity
1	NY250216AT02	DN125 PN16 BLIND RF TYPE05R	5
2	NY241104AT13	DN50 PN16 SORF TYPE01B	200
3	NY241104AT13	DN65 PN16 SORF TYPE01B	75
4	NY241104AT13	DN80 PN16 SORF TYPE01B	200
5	NY250216AT02	DN125 PN16 SORF TYPE01B	200
6	NY250216AT02	DN200 PN16 SORF TYPE01B	50

B. Chemical Analysis

Heat No.	C%	Mn%	Si%	S%	P%	Cr%	Ni%	N%		
	≤0.03	≤2.00	≤1.00	≤0.015	≤0.045	18.0-19.5	8.0-10.5	≤0.10		
NY250216AT02	0.019	1.35	0.42	0.003	0.036	18.52	8.01	0		
NY241104AT13	0.026	1.56	0.37	0.002	0.032	18.56	8.01	0		

C. Mechanical Properties

Heat No.	Tensile Strength	Yield Strength	Elongation	R. of A.	Hardness	Impact Value at 20°C		
	Mpa	Mpa	A%	W%	HB	J		
	515-700	≥ 205	≥ 35	≥ 50	≤ 187	≥ 60		
NY241104AT13	565	260	41	58	160	70	72	73
NY250216AT02	570	262	42	59	162	73	75	75

We hereby certify that the products described herein have been manufactured in compliance with above mentioned standards and that the test results shown herein are qualified.

The Mechanical and Chemical properties quoted are true and correct copy of the results shown by the test house that carried out the tests.

Visual, Dimensional, and Marking checks have been carried out with satisfactory results.

PMI and Intergranular Corrosion tests acc. ISO 3651-2 & ASTM A262: satisfactory.

This test certificate has been printed by computer in accordance with BS EN10204.



VIRAJ PROFILES PRIVATE LIMITED (formerly, Viraj Profiles Limited)(Forgings Div)
Survey No-140/1 & G-75 MIDC, Tarapur Ind.Area, Boisar, Dist.Palghar,Maharashtra-401506,INDIA
Email-vfllqc@viraj.com,web.www.viraj.com(A01)

(A02) INSPECTION CERTIFICATE & MILL TEST REPORT - EN 10204 3.1

(A06)CUSTOMER : AALCO METALS LTD WESTERN WAY WEDNESBURY WEST MIDLANDS WS10 7BW UNITED KINGDOM . United Kingdom		Manufacturer's	(A03)MTR NO.	12/250070090/27 / Rev - 01
		Symbol (A04)	INVOICE NUMBER	910058320
			(Z02) DATE	23.12.2025
			MATERIAL SPEC.	EN10222-5-2017
			(B02) GRADE	1.4401/1.4404
			DIMENSIONAL SPEC.	EN1092-1:2018

(B01) : STAINLESS STEEL FORGED FLANGES (B04) DELIVERY CONDITION : HOT FORGED AND FULLY MACHINED

ISO 9001:2015-TUV NORD REG.No.-04100031210/05 EXPIRY DATE: 22.07.2027 & APPROVED ACCORDING TO AD 2000 MERKBLATT W0 & CERTIFIED ACCORDING TO PED (2014/68/EU) BY CERTIFICATION BODY FOR PRESSURE EQUIPMENT OF TUV NORD SYSTEMS (NOTIFIED BODY REGISTRATION NO. -0045)

ML-512795-01

(A07)ORDER NO: PO0049887MC	(A08)Sales Order No. 100055152/000500	(A09)Article No:84231T
(B09-B11)ITEM DESCRIPTION		(B08)QUANTITY(PCS)
DN40 TYPE 05 B1 PN16 .		36
		(B07)HEAT NUMBER
		FKD35

(C71-C92) CHEMICAL ANALYSIS

ELEMENT	%C	%Mn	%Si	%S	%P	%Cr	%Ni	%Mo	%Ti	%N									
MIN						16.50	10.00	2.00											
MAX	0.030	2.00	1.00	0.030	0.045	18.50	13.00	2.50		0.1100									
HEAT	0.020	1.63	0.41	0.009	0.036	16.67	10.05	2.03	0.003	0.0680									

MECHANICAL PROPERTIES

Test Specification ISO 6892-1										ISO 6506-1		Test Specification ISO 148-1	
(C01) Sample location : Mid thickness-forging		(C03) Test Temp : RT	(C02) Test Direction : Tr		(C10) Sample Shape Round								
Test Values	(C12) Tensile Strength	(C11) Yield Strength		(C13) Elongation%	Reduction of Area	Hardness	(C40) Charpy V-Notch 10x10x55mm Values At -20°C (Joules)						
		Rp = 0.2%	Rp = 1%				(C42) Single values			(C43) AVG			
	Mpa	Mpa	Mpa	Lo 5D	%	HR15N	1	2	3				
Req.	510/710	205 MIN	240 MIN	35 MIN		237 MAX							
T	537.65	248.37	283.73	60.80	72.96	153	202	210	216			209	

Other applicable Specifications :: NACE MR 0175-2021 / ISO 15156-2020 NACE MR 0103-2023 & MATERIAL CONFORMS TO W2/W9/W10

Melting Process : Electrical induction furnace & Argon Oxygen decarburization(IRS) Concast

Heat Treatment	: Solution Annealed at 1080°C and water Quenched
Dimensional Inspection	: Conform with the specification (100% inspected)
Joining Face roughness	: Satisfactory & No weld repair performed
PMI Test	: No objection (100% tested with PMI tester)
Corrosion Test	: Passed IGC test in accordance with DIN EN ISO 3651-2
Micro Observation	: No carbide precipitation observed on grain boundaries
Radioactivity Test	: We here by certify that all the material is free from radioactive contamination
Mercury Contamination	: Free from mercury contamination

We certify that the above material has been inspected and tested and complies with the order/contract and is of Indian origin
HS Code : 73072100 The material is manufactured /melted in Viraj Profiles Private Limited Steel Mill and is of Indian Origin. Material does not contain steel products originating in Russia mentioned The Russia (Sanctions (EU Exit) (Amendment) Regulations 2023 Regulation 461A and 461B and Annex XVII to the (EU) Regulation No 833/ 2014 and further amendment.



(Z03)Inspector's Stamp

Signature

VIJAY KUMAR PILLAI (President QA)





柏纬(泰州)铁工有限公司
BOTH-WELL(TAIZHOU)STEEL FITTINGS CO.,LTD.

江苏省泰州市姜堰经济开发区天目路669号(邮编: 225500)
NO. 669, TIANMU ROAD, JIANGYAN ECONOMIC DEVELOPMENT ZONE, TAIZHOU
CITY, JIANGSU PROVINCE, P. R. CHINA (225500)
TEL: (+86)523-88863918-21 FAX: (+86)523-88863926
E-mail: sales@tzbothwell.com.cn WEB: http://www.bothwell.com.cn

MILL TEST & INSPECTION CERTIFICATE

ACCORDING TO EN10204-3.1/2004

CUSTOMER: THE METAL CENTRE

CERT NO: 25120021 ORDER NO: P00051133MC

INVOICE NO: BW25090012
L/C NO:

DATE: 12/10/25
PAGE: 2

ITEM	RAW MATERIAL HEAT NO.	BOTH WELL HT.CD.	DESCRIPTION	QUANTITY	SPECIFICATION: ASTM A182/A182M-24c ASME SA182-2023 ED F316/F316L EN 10222-5 1.4401/1.4404
0230	NY250523AT14	HT148775AD	FLANGE TYPE 01 B DN50/60.3mm PN16	200 PCS	
0240	25FG08036	HT1523A3AB	FLANGE TYPE 01 B DN200/219.1mm PN16	35 PCS	
0260	NY250727AT15	HT151190AF	FLANGE TYPE 01 B DN80/88.9mm PN16	100 PCS	
0270	NY251011AT03	HT1545ABAC	FLANGE TYPE 01 B DN150/168.3mm PN16	150 PCS	
0280	24FG03217	HT128465AU	FLANGE TYPE 01 B DN32/42.4mm PN16	25 PCS	
0290	24FG10113	HT1385A3AK	FLANGE TYPE 01 B DN40/48.3mm PN16	75 PCS	
0300	NY250523AT14	HT148775AE	FLANGE TYPE 05 B DN50 PN16	75 PCS	

ITEM	CHEMICAL COMPOSITION (%)											
	C	Si	Mn	P	S	Cu	Cr	Ni	Mo	V	Cb(Nb)	N
Min	-	-	-	-	-	-	16.500	10.000	2.000	-	-	-
Max	0.030	1.000	2.000	0.045	0.015	-	18.000	13.000	2.500	-	-	0.100
0230	0.018	0.41	1.00	0.033	0.001	-	16.55	10.04	2.01	-	-	0.043
0240	0.020	0.420	0.96	0.029	0.0010	-	16.56	10.01	2.00	-	-	0.052
0260	0.017	0.37	0.89	0.035	0.002	-	16.59	10.00	2.01	-	-	0.046
0270	0.019	0.40	0.87	0.036	0.002	-	16.51	10.00	2.02	-	-	0.046
0280	0.016	0.350	0.86	0.031	0.0020	-	16.52	10.05	2.03	-	-	0.052
0290	0.017	0.360	0.98	0.036	0.0010	-	16.58	10.05	2.06	-	-	0.048
0300	0.018	0.41	1.00	0.033	0.001	-	16.55	10.04	2.01	-	-	0.043

ITEM	MECHANICAL TEST					Remark:
	Tensile Strength (KSI)	Yield Strength (KSI)	Elong- Gation (%)	R of A (%)	Hardness (HBW)	
Min	75.0	30.0	45.0	50.0	-	
Max	100.0	-	-	-	235.0	
0230	88.4	45.1	57.7	74.0	166.0 170.0	
0240	87.1	42.7	57.2	75.3	165.0 161.0	
0260	90.3	42.7	57.9	75.8	167.0 163.0	
0270	89.4	43.2	57.2	76.1	168.0 164.0	
0280	86.0	44.1	58.1	74.9	165.0 169.0	
0290	87.9	43.2	57.4	75.3	168.0 164.0	
0300	90.9	45.6	57.5	73.4	168.0 164.0	

WE CERTIFY THE ABOVE MENTIONED FITTINGS HAVE BEEN MANUFACTURED AND TESTED IN ACCORDANCE WITH THE SPECIFICATIONS SHOWN

Q.C. MANAGER INSPECTOR



TSINGSHAN STEEL PIPE CO., LTD.

Lidun Industrial Zone, Lidun Town, Zhouning County, Ningde City,

355402 Fujian, China

Mill Test Certificate acc. to EN10204 3.1

MC-513565-01

ISO 9001:2015

Directive 2014/68/EU

AD 2000-Merkblatt W0

TS

Cert. No.: 01 100 1733602

Cert. No.: 01 202 CHN/Q-16 0600

Cert. No.: 01 202 CHN/Q-16 0600

Cert. No.: TS2735202-2030

Client

The Metal Centre

Contract No.

TF20250934

PO No.

PO0051229MC

Certificate No

20251215-10

Product

STAINLESS STEEL COLD FORMED BUTT WELD FITTINGS

Delivery Conditions

Solution Annealed, pickled and passivated

Item

Quantity

Size

Description

Grade

Heat No.

Heat treatment

Quenching

14

20

3/4"x1/2"

SCH10S

WP316/316L-W

A0103276

1050°C

RWQ

16

50

2"x1"

SCH10S

WP316/316L-W

CXM070074

1050°C

RWQ

17

50

2"x1 1/2"

SCH10S

WP316/316L-W

CXM070074

1050°C

RWQ

18

5

1"x1/2"

SCH40S

WP316/316L-W

G240812B021-2

1050°C

RWQ

19

20

3/4"

SCH10S

WP316/316L-W

CYE070181

1050°C

RWQ

21

13

2"x1"

SCH10S

WP316/316L-W

S241104AA23

1050°C

RWQ

22

38

1/2"

SCH10S

WP316/316L-W

G220810B061-2

1050°C

RWQ

Heat No.

C

Mn

P

S

Si

Cr

Ni

Mo

Chemical Composition (%)

Heat No.

Visual

Dimensional

A0103276

0.024

1.03

0.026

0.002

0.53

16.26

10.19

2.13

CXM070074

0.021

1.21

0.036

0.001

0.48

16.94

10.03

2.02

CXM070074

0.021

1.21

0.036

0.001

0.48

16.94

10.03

2.02

G240812B021-2

0.024

1.05

0.031

0.002

0.47

16.76

10.00

2.02

CYE070181

0.016

1.18

0.035

0.001

0.42

16.89

10.03

2.02

S241104AA23

0.015

1.34

0.033

0.002

0.49

16.38

10.06

2.08

G220810B061-2

0.021

1.08

0.029

0.002

0.46

16.75

10.03

2.03

Heat No.

TS(Mpa)

YS Rp0.2%(Mpa)

EL(%)

Hardness

NACE MR0175

IC Test

ASTM A262E

Impact Test

Non-destructive Test

RT

PML

100%

Visual

A0103276

654

264

51.7

HRB=81

OK

OK

N/A

N/A

OK

OK

OK

OK

OK

CXM070074

611

274

58.0

HRB=78

OK

OK

N/A

N/A

OK

OK

OK

OK

OK

CXM070074

611

274

58.0

HRB=78

OK

OK

N/A

N/A

OK

OK

OK

OK

OK

G240812B021-2

586

263

54.7

HRB=81

OK

OK

N/A

N/A

OK

OK

OK

OK

OK

CYE070181

609

278

58.0

HRB=80

OK

OK

N/A

N/A

OK

OK

OK

OK

OK

S241104AA23

559

263

58.3

HRB=72

OK

OK

N/A

N/A

OK

OK

OK

OK

OK

G220810B061-2

591

271

58.0

HRB=78

OK

OK

N/A

N/A

OK

OK

OK

OK

OK

MARKING: TSINGSHAN ASTM/ASME A/S403 CODE GRADE NPS SCH HEAT NO. ***

1. Material conforms to the Specifications/Standards shown.

2. In accordance with NACE MR0175 & MR0103 / ISO 15156 latest edition.

3. Country of Melt: CHINA

4. Country of Origin: CHINA

Q.A. Manager:

Date:

15-Dec-25

TSINGSHAN STEEL PIPE CO., LTD.
质量证明书专用章(3)
MILL TEST CERTIFICATE STAMP