

## CERTIFICATE

**TUV SUD BABT Unlimited** 

certifies that

Haynes International, Inc. 1020 West Park Avenue Kokomo, IN 46904-9013 2000 W Defenbaugh Street Kokomo, IN 46902

has implemented, operates and maintains a

Quality Assurance System in accordance with the Pressure Equipment (Safety) Regulation 2016/1105, Schedule 2, Part. 4, Para. 31 (8) as well as EN 764-5, Para. 4.2

as a material manufacturer for the scope of

Custom Melted Ingot, Billet & Bar, Plate Material of Corrosion Resistant Ni-Based Alloys

The scope of the approval is described in the annex to this certificate. Further details are mentioned in report no. C-72178042UK-22.

The manufacturer is therefore authorized to issue certificates of specific product control within the scope of the assessed quality system and in accordance with the Pressure Equipment (Safety) Regulation 2016/1105. Possible additional requirements - specific to applied technical specifications to meet PER 2016/1105, Schedule 2 - are not affected.

This certificate is valid through 2025-04-31.

In order to adhere the validity an annual surveillance audit is required.

Certificate No.: PER-0168-QS-M 3228700/2022/MUC-01 Fareham, 2022-08-01

**TUV SUD BABT Unlimited** 

(Dirk Schroeter)

Certification Body Materials and Permanent Joining

TUV SUD BABT Unlimited Octagon House, Concorde Way Segensworth North, Fareham, Hampshire, PO 15 5RL, United Kingdom

**CERTIFICAT** 

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01.08.2022

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Scope of the approval – Manufacturer of material in accordance with PER 2016/1105, Schedule 2, Part 4, Para. 31 (8)										Annex to certificate no. PER-0168-QS-M 3228700/2022/MUC-01 von / dated 2022-08-01					
Name:Haynes International, Inc.Manufacturer:Street:1020 West Park Avenue / 2000 W Defenbaugh StreetCity:Kokomo, IN 46904-9013 / Kokomo, IN 46902									Country: USA		Date rev. (		Page 1 of 1	Competent Body of TUV SUD BABT Unlimite	
No.	Material Designation Material Grade	Material Specification		Delivery Conditio		escription Product	Dimer Thickness [mm]		nsions Diameter [mm]		Weight 1=t 2=kg			ements al Rules	Report no. C-72178042UK-22 dated 2022-07-08
		Spec.	No.	Code			from	to	from	to	2-kg ↓	value	Spec.	No.	Remarks
1	2	3a	3b	4	5		6a	6b	7a	7b	8a	8b	9a	9b	10
01	NiMo16Cr15W (2.4819) (2760 HASTELLOY®C-276® alloy) (UNS N 10276)	VdTÜV ASTM ASME	400 B575, 574 SB575, 574	AT AT U AT	Plate Strip / Coil Forging Bar		  	20 4 90 90	   	   90	   		54		*) To fulfil essential safety requirements of PER Schedule 2, for each material acc. to non designated standards a Particular Material Appraisal (PMA) is mandatory.
02	NiMo16Cr16Ti (2455HASTELLOY®C-4® alloy) (UNS 06455)	VdTÜV ASTM ASME	424 B575, 574 SB575, 574	AT AT U AT	Plate Strip / Coil Forging Bar		  	65 4 90 90	  	  90	  				
03	NiCr21Mo14W (2277 HASTELLOY®C-22® alloy) (UNS N 06022)	VdTÜV ASTM ASME	479 B575, 574 SB575, 574	AT AT U AT	Plate Strip / Coil Forging Bar		  	51 4 90 90	  	  90	  				
04	2675HASTELLOY®B-3® alloy (UNS N 10675)	VdTÜV ASTM ASME	517 B333, 335 SB333, 335	AT AT S AT	Plate Strip / Coil Forging Bar		  	65 4 90 220	  	   220	  				For the use of materials acc. to column 2 till
05	NiCr23Mo16Cu (2316 HASTELLOY®C-2000® alloy) Respectively ASTM grades	VdTÜV ASME ASME ASME	539 SB575 SB564 SB574	AT AT U AT	Plate Strip / Coil Forging Bar			65 4 90 90	  	  90	  				4 the regulations and limits of the respective standards have to be observed. The specific material operating conditions have to be approved by the pressure equipment manufacturer or respectively by the Approved Body in charge.
06	NiCr22Mo9Nb (2.4856) (2650 HAYNES® 625 Alloy) (UNS N06625)	ASME ASME	SB443 SB446	A/AT A/AT U A/AT	Plate Strip / Coil Forging Bar		  	20 4 90 90	  	  90					the Approved Body in charge.
07	HASTELLOY® G-25® Alloy		-	AT	Strip / Coil			1.0							Per Alfa Laval material standard AL111 6379-63 (latest revision)
08	Alloy UNS N06030 (HASTELLOY® G-30® Alloy)	ASME	SB582	A	Strip / Coil			3.0							Per Alfa Laval material standard AL111 6364-63 (latest revision)
<u>Explanati</u>	QT = quenched and tempered a = material designation in colu d = dimensions acc. to technica	CR = temperatu mn 10 b = cond	ire controlled hot lition in column 1	formed (contro 0 c = object in	illed rolled) A = annealed	i <b>AR</b> = as rolled lumn 10			<u> </u>		1		I	I	
Created	/ revised: 2022-02-21					Approved: 202	2-02-2	1 W. Sch	ock						Page 1 of 1
File: TS-	BABT-M-10_Scope of approval					Revision:	V 2					Printed	copies are no	t subject to	change service! Copyright TUV SUD BABT Unlimited