



Industrie Service

CERTIFICATE

The Notified Body - 0036 -
of TÜV SÜD Industrie Service GmbH

certifies that

Plymouth Engineered Shapes
201 Commerce Court
Hopkinsville, KY 42240
USA

has implemented, operates and maintains a

Quality Assurance System in accordance with the
Pressure Equipment Directive 2014/68/EU, Annex I, Section 4.3,
AD 2000-Merkblatt W 0 as well as EN 764-5, Para. 4.2

as a material manufacturer for the scope of

extruded stainless steel bars.

The scope of the approval is described in the annex to this certificate.
Further details are mentioned in report no. IS-P-USA-18-03-271-001.

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 Directive 2014/68/EU. Possible additional requirements - specific to applied technical specifications to meet PED Annex I - are not affected.

This certificate is valid through March 2021.

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

Certificate No.: DGR-0036-QS-W 290/2006/MUC
Munich, March 20th, 2018

Notified Body, No. 0036



(M. Strobel)

Certification Body
Material and Welding Technology



EQ2762092



Industrie Service

Geltungsbereich der Überprüfung als Hersteller von Werkstoffen nach AD 2000-Merkblatt W 0
Scope of the approval - Manufacturer of material in accordance with AD 2000-Merkblatt W 0

Anlage zum Zertifikat Nr. / Annex to certificate no.
DGR-0036-QS-W 290/2006/MUC von / dated 2018-03-20

Hersteller / Manufacturer:	Name: Strabe/Street: Ort/City:		Plymouth Engineered Shapes 201 Commerce Court Hopkinsville, KY 42240		Werk / plant:		Nationalität/ Country: USA	Datum/ Date: 2018-03-20	Blatt-Nr./: Page No.: 1 v. / of 2	Zertifizierungsstelle für Druckgeräte / Certification Body for pressure equipment Notifizierte Stelle, Nr. / Notified Body, No. 0036			
	Werkstoffbezeichnung Werkstoff-Nr. / Material Designation Material Grade	Werkstoff- Spezifikation / Material Specification	Liefer- zustand / Delivery Condition	Prüfgegenstand Erzeugnisform / Description Product	Abmessungen / Dimensions Dicke / Thickness [mm] von / from bis / to	Durchm. / Diameter [mm] von / from bis / to					Gewicht / Weight 1 = t 2 = kg Wert value	Prüfgrundlagen Technische Regeln / Requirements Technical Rules	Bemerkungen / Remarks
lfd. Nr. / No.	2	3a	4	5	6a	6b	7a	7b	8a	8b	9a	9b	10
1	Austenite / Austenitic Steel												
2	X5CrNi18-10 (1.4301)	EN	A	Profile, Formstahl	-	-	-	-	2	155	AD-2000	W2W10	Material former DIN 17440
3	X2CrNi19-11 (1.4306)	EN	A	Profile, Formstahl	-	-	-	-	2	155	AD-2000	W2W10	Material former DIN 17440
4	X2CrNi18-10 (1.4311)	EN	A	Profile, Formstahl	-	-	-	-	2	155	AD-2000	W2W10	Material former DIN 17440
5	X5CrNiMo17-12-2 (1.4401)	EN	A	Profile, Formstahl	-	-	-	-	2	155	AD-2000	W2W10	Material former DIN 17440
6	X2CrNiMo17-12-2 (1.4404)	EN	A	Profile, Formstahl	-	-	-	-	2	155	AD-2000	W2W10	Material former DIN 17440
7	X5CrNiMo17-12-2 (1.4401)	EN	CD	Profile, Formstahl	4	35	-	-	2	155	AD-2000	W2W10	Material former DIN 17440
8	X5CrNiMo18-14-3 (1.4435)	EN	A	Profile, Formstahl	35	76.2	-	-	2	155	AD-2000	W2W10	Material former DIN 17440, see report TUV SUD 906257 dated 17. November 2006 Material former DIN 17440

Bericht Nr. / report no. IS-P-USA-18-03-271-001 vom / dated 2018-03-15

Erklärung / Explanation: A = lösungsgeglüht und abgeschreckt / solution annealed and quenched L = lösungsgeglüht / solution annealed N = normalgeglüht / normalized S = spannungsarmgeglüht / stress relieved TM = thermomech. treated
 U = ungeglüht / not annealed V = vergütet und angelassen / quenched and tempered CR = temperungeregt warmumgeformt / controlled rolled G = weichegeglüht / annealed
 a = Werkstoffbezeichnung in Spalte 10 / material designation in column 10 b = Lieferzustand in Spalte 10 / delivery condition in column 10 c = Prüfgegenstand in Spalte 10 / object in column 10 d = Abmessung gem. tech. Regeln / dimensions acc. to technical rules
 e = Gewicht gem. tech. Regeln / weight acc. to technical rules f = Nr. der tech. Regeln in Spalte 10 / technical rules in column 10



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Geltungsbereich der Überprüfung als Hersteller von Werkstoffen nach DGRL 2014/68/EU, Anhang I, Abschnitt 4.3
Scope of the approval – Manufacturer of material in accordance with PED 2014/68/EU, Annex I, Section 4.3

Anlage zum Zertifikat Nr. / Annex to certificate no.
DGR-0036-QS-W 290/2006/MUC von / dated 2018-03-20

Hersteller / Manufacturer:	Name: Plymouth Engineered Shapes 201 Commerce Court Hopkinsville, KY 42240		Werk / plant:		Datum / Date: 2018-03-20	Blatt-Nr. / Page No.: 2 v. / of 2	Zertifizierungsstelle für Druckgeräte / Certification Body for pressure equipment Notifizierte Stelle, Nr. / Notified Body, No. 0036							
	Straße/Street: Ort/City:			Nationalität/ Country: USA										
Werkstoffbezeichnung Werkstoff-Nr. / Material Designation Material Grade	Werkstoff- Spezifikation / Material Specification	Liefer- zustand / Delivery Condition	Prüfgegenstand Erzeugnisform / Description Product	Abmessungen / Dimensions		Gewicht / Weight	Prüfgrundlagen Technische Regeln / Requirements Technical Rules	Bemerkungen / Remarks						
				Dicke / Thickness [mm]	Durchm. / Diameter [mm]				von / from	bis / to	Art / Spec.	Nr. / No.		
1	2	3a	3b	4	5	6a	6b	7a	7b	8a	8b	9a	9b	10
Austenite / Austenitic Steel														
X5CrNi18-10 (1.4301)	EN 10272	A	Profile, Formstahl	-	-	2	-	-	-	2	155			
X2CrNi19-11 (1.4306)	EN 10272	A	Profile, Formstahl	-	-	2	-	-	-	2	155			
X2CrNi18-10 (1.4311)	EN 10272	A	Profile, Formstahl	-	-	2	-	-	-	2	155			
X5CrNiMo17-12-2 (1.4401)	EN 10272	A	Profile, Formstahl	-	-	2	-	-	-	2	155			
X2CrNiMo17-12-2 (1.4404)	EN 10272	A	Profile, Formstahl	-	-	2	-	-	-	2	155			
X5CrNiMo17-12-2 (1.4401)	EN 10272	CD	Profile, Formstahl	-	-	2	76,2	-	-	2	155			
X2CrNiMo18-14-3 (1.4435)	EN 10272	A	Profile, Formstahl	-	-	2	-	-	-	2	155			

Bei Verwendung der Werkstoffe in Spalte 2 bis 4 sind die Festlegungen und Grenzen des jeweiligen Regelwerkes zu beachten. Für die spezifischen Einsatzbedingungen der Werkstoffe ist die Zustimmung des Druckgeräteherstellers bzw. der zuständigen Benannten Stelle erforderlich. / For the use of materials acc. to column 2 till 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 Notified Body in charge.

Bericht Nr. / report no. IS-P-USA-18-03-271-001
 vom / dated 2018-03-15

Erklärung/Explanation: A = lösungsgeglüht / solution annealed and quenched L = lösungsgeglüht / solution annealed N = normalgeglüht / stress relieved S = spannungsarmgeglüht / stress relieved TM = thermomech. behandelt / thermo-mech. treated
 U = ungeglüht / not annealed V = vergütet und angelassen / quenched and tempered CR = temperatureregelt warmumgeformt / controlled rolled G = weichegeglüht / annealed
 a = Werkstoffbezeichnung in Spalte 10 / material designation in column 10 b = Lieferzustand in Spalte 10 / delivery condition in column 10 c = Prüfgegenstand in Spalte 10 / object in column 10 d = Abmessung gem. tech. Regeln / dimensions acc. to technical rules
 e = Gewicht gem. tech. Regeln / weight acc. to technical rules. f = Nr. der tech. Regeln in Spalte 10 / technical rules in column 10