



SHANXI HONGKAI FORGING CO., LTD. 山西鸿铠锻造有限公司

公司简介 COMPANY PROFILE

我们诚心为您服务

山西鸿铠锻造有限公司

山西鸿铠锻造有限公司位于中国能源重化工基地、山西省锻造之乡定襄县境内。交通便利、煤炭、电力资源丰富，通讯快捷，环境优越。公司共有三个分公司。

公司拥有独立的进出口权，具备锻造、热处理、机加工、理化试验、表面处理、包装发运一体的生产能力。具有坚实的技术力量，先进的生产工艺，完善的质量检验，可靠的售后服务，为世界各地及国内众多客户提供了坚实的合作基础。

我公司制造的法兰盘，执行美标 ASME: B16.5，欧洲标准 EN1092-1，德国标准 DIN，意大利标准 UNI，英国标准 BS4504，日本标准 JIS，俄罗斯标准 GOST 等以及中国国家标准，主要品种有：高径、搭接、承窝、活套、螺纹、盲板、平板等。生产的规格有 DN15—DN4000，产品以出口为主，远销欧洲，美洲等国家和地区。产品质量优良，服务周到，深受国内外客户、用户的赞赏和信赖，赢得了很高的信誉，已成为国内较大的法兰盘、锻件供应商之一。

我公司今后将以更新的态度继续与国内外客户加强往来，互惠互利，增进友谊，共同发展，携手共创美好未来，热忱欢迎各界用户前来洽谈业务。



SHANXI HONGKAI FORGING CO., LTD.

Shanxi Hongkai Forging Co., Ltd. is located in China Energy Heavy Chemical Industry Base, Dingxiang County, the hometown of forging in Shanxi Province. Convenient transportation, abundant coal and power resources, fast communication and superior environment. The company has three branches.

The company has independent import and export rights, and has the production capacity of forging, heat treatment, machining, physical and chemical testing, surface treatment, packaging and shipping. With solid technical force, advanced production technology, perfect quality inspection, and reliable after-sales service, it has provided the supervisory cooperation basis for many customers all over the world and domestic.

The flanges manufactured by our company implement American Standard ASME: B16.5, European Standard EN1092-1, German Standard DIN, Italian Standard UNI, British Standard BS4504, Japanese Standard JIS, Russian Standard GOST, etc., as well as Chinese national standards, main varieties There are: high diameter, overlap, socket, looper, thread, blind plate, flat plate, etc. The production specifications are DN15-DN4000. The products are mainly exported. It is exported to Europe, America and other countries and regions. The products are of excellent quality and thoughtful service. They are deeply appreciated and trusted by customers and users at home and abroad, and have won a high reputation. They have become one of the largest flange and forging suppliers in China.

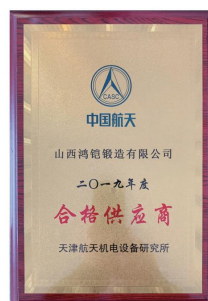
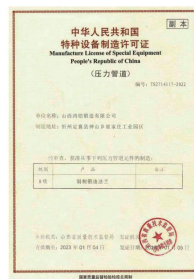
In the future, our company will continue to strengthen contacts with domestic and foreign customers with a new attitude, mutual benefit, enhance friendship, common development, and create a better future together. We warmly welcome users from all walks of life to negotiate business.





山西鸿铠锻造有限公司

ENTERPRISE HONOR 企业资质



SHANXI HONGKAI FORGING CO., LTD.



山西鸿铠锻造有限公司

EQUIPMENTS 设备展示



SHANXI HONGKAI FORGING CO., LTD.



山西鸿铠锻造有限公司

SHANXI HONGKAI FORGING CO., LTD.



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PHYSICAL AND CHEMICAL TEST ROOM

理化室



METALLOGRAPHIC
MICROSCOPE
▪ 金相显微镜



SPECTROMETER
▪ 光谱仪



SURFACE
ROUGHOMETER
▪ 表面粗糙度仪

| 08



UNIVERSAL TESTING
MACHINE
▪ 万能试验机



BRINELL HARDNESS
TESTER
▪ 布氏硬度计



IMPACT TESTING
MACHINE
▪ 冲击试验机



LEEB HARDNESS
TESTER
▪ 里氏硬度计



ULTRASONIC FLAW
DETECTOR
▪ 超声波探伤仪



METALLOGRAPHIC SAMPLE
POLISHING MACHINE
▪ 金相试样抛光机



LOW TEMPERATURE INSTRUMENT
▪ 低温仪

09 |



山西鸿铠锻造有限公司

PRODUCT 产品展示

ANSI / API / MSS / AWWA / EN1092-1 / DIN / JIS / UNI



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SHANXI HONGKAI FORGING CO., LTD.



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山西鸿铠锻造有限公司

RAW MATERIALS 原材料



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Product Carbon Footprint Verification Statement

The Product Carbon Footprint study of Carbon steel flange which is conducted by

SHANXI HONGKAI FORGING CO.,LTD.

Cuijiazhuang Industrial Park, Shenshan Township, Dingxiang County, Xinzhou City, Shanxi Province, P.R. China

has been verified meeting the requirements of ISO 14067:2018

The carbon footprint of 1 ton of carbon steel flange is 2961.42 Kilogram of CO₂ e

For the life cycle stages of product: cradle to gate

Authorized by
David Xin
Sr. Director – Business Assurance
Date: 28 November 2024

SGS-CSTC Standards Technical Services Co., Ltd.
16F Century Yuhui Mansion, No. 73 Fucheng Road, Beijing, P.R. CHINA 100142
t +86 (0)10 58251188 www.sgsgroup.com.cn

This Statement is not valid without the full verification scope, objectives, criteria and findings available on pages 2 to 5 of this Statement.



SGS-CSTC Standards Technical Services Co., Ltd. (hereinafter referred to as "SGS") has been commissioned by SHANXI HONGKAI FORGING CO.,LTD. (hereinafter referred to as "SHANXI HONGKAI"), Cuijiazhuang Industrial Park, Shenshan Township, Dingxiang County, Xinzhou City, Shanxi Province, P.R. China, for the verification the life cycle Greenhouse Gas emissions of product as provided by SHANXI HONGKAI in accordance with

ISO 14067:2018

Roles and responsibilities
SHANXI HONGKAI is responsible for the management of its GHG information system, the development and maintenance of records and reporting procedures in accordance with that system, including the calculation and determination of the life cycle GHG emissions of product information and the reported life cycle GHG emissions of product.

It is SGS's responsibility to express an independent GHG verification opinion on the life cycle GHG emissions of Carbon steel flange.

SGS conducted a third-party verification of the provided GHG assertion against the principles of ISO 14067:2018, ISO 14040:2006 and ISO 14044:2006 in the period from 18 Nov, 2024 to 19 Nov, 2024. The verification was based on the verification scope, objectives and criteria as agreed between SHANXI HONGKAI and SGS.

Level of Assurance
The level of assurance agreed is that of reasonable assurance.

Scope
SHANXI HONGKAI has commissioned an independent verification by SGS of reported the life cycle GHG emissions of product of Carbon steel flange arising from the manufacture of Carbon steel flange product activities, to establish conformance with ISO 14067:2018 principles within the scope of the verification as outlined below.

This engagement covers verification of emission from partial life cycle of the product of greenhouse gases included within the organization's boundary and is based on ISO 14067:2018.

Title or description activities: GHG verification of the life cycle GHG emissions of Carbon steel flange.

This Statement is not valid without the full verification scope, objectives, criteria and findings available on pages 2 to 5 of this Statement.



Product Category Rule: there was not relevant PCR can be considered.
Functional unit: 1 ton carbon steel flange
System boundary: Covers a "carbon steel flange" assessment of the life cycle emissions, from raw material extraction to production completion. The system boundary be clearly defined in accordance with ISO 14040:2006, ISO 14044:2006 and ISO 14067:2018.
Use phase: Excluded in system boundary
Retail locations: Excluded in system boundary
Disposal phase: Excluded in system boundary
Data resources: The primary data collection from manufacture and own operation phase. The secondary data collection from Ecoinvent 3.10 and IPCC.
Life cycle assessment tool and index using:
Software applied SimaPro 9 version.
IPCC 2021 GWP values are applied in this inventory.
Cut-off rules: The flow is less than 1% of the cumulative mass of the model it be excluded, providing its environmental relevance is not a concern, a minimum 97% of the total mass for the system is captured.
Allocation rules:
Multi-output: The allocations are based on the changes in the resource consumption and pollutant emissions following the changes in the studied system's output product, or function or economical relationship.
Multi-input: The allocation is based on actual relationship. For example, the manufacturing process's consumption may be affected by the change in recycled resource input.
Manufacturing locations:Cuijiazhuang Industrial Park, Shenshan Township, Dingxiang County, Xinzhou City, Shanxi Province, P.R. China
Emissions and removal of the product system included: please refer to the CFP study reported provided by SHANXI HONGKAI: (CFP study reported of Carbon steel flange, 2024/SXHK/A/0816 - Ver01).
Types of GHGs included: CO₂, CH₄, N₂O, Substances controlled by the Montreal Protocol, HFCs, PFCs, Fluorinated ethers, Perfluoropolyether, Hydrocarbons compounds.
Mitigation: There is no GHG emissions off setting used at any point in the life cycle of the product.
GHG information for the following production period was verified: from 1 Jan, 2024 to 30 Jun, 2024, emissions covered the particular period.
Intended user of the verification statement: customer, the public, investors,etc..

Objective
The purposes of this verification are, by review of objective evidence, to independently review: Whether the life cycle GHG emissions and removals of product are as declared by the

This Statement is not valid without the full verification scope, objectives, criteria and findings available on pages 2 to 5 of this Statement.

Statement CN24/00007517, continued

organization's CFP study report;

The data reported are accurate, complete, consistent, transparent and free of material error or omission.

Criteria

Criteria against which the verification assessment is undertaken are the principles of ISO 14067:2018.

The IPCC 2021 AR6 GWP values are applied in this assessment of life cycle GHG emissions for the product.

Materiality

The materiality required of the verification was considered by SGS to 5%, based on the needs of the intended user of the GHG Assertion.

Conclusion

SHANXI HONGKAI provided the GHG assertion based on the requirements of ISO 14067:2018. The life cycle GHG information of product for the production period from 1 Jan, 2024 to 30 Jun, 2024 disclosing emissions of 2961.42 Kilogram of CO2 equivalent, covering a Cradle to Gate system boundary, are verified by SGS to a reasonable level of assurance, consistent with the agreed verification scope, objectives and criteria.

The life cycle GHG emissions of Carbon steel flange, are described as below:

Life Cycle Phase	GHG Emissions	Unit
Raw material acquisition phase	2565.61	kg CO2e
Material transport phase	394.49	kg CO2e
Manufacture phase	1.32	kg CO2e
Total	2961.42	kg CO2e

SGS's approach is risk-based, drawing on an understanding of the risks associated with reporting the life cycle GHG emissions of product information and the controls in place to mitigate these. Our examination includes assessment, on a test basis, of evidence relevant to the amounts and disclosures in relation to the organization's reported life cycle GHG emissions of product.

We planned and performed our work to obtain the information, explanations and evidence that we considered necessary to provide a reasonable level of assurance that the life cycle GHG emissions of Carbon steel flange.

This Statement is not valid without the full verification scope, objectives, criteria and findings available on pages 2 to 5 of this Statement.

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Statement CN24/00007517, continued

We conducted our verification with regard to the GHG assertion of SHANXI HONGKAI which included assessment of GHG information system, monitoring and reporting plan/protocol. This assessment included the collection of evidence supporting the reported data, and checking whether the provisions of the protocol reference, were consistently and appropriately applied

In SGS's opinion the presented GHG assertion

is materially correct and is a fair representation of the GHG data and information, and

is prepared in accordance with ISO 14067:2018 on GHG quantification, monitoring and reporting.

This statement shall be interpreted with the CFP study report of SHANXI HONGKAI (CFP study report of Carbon steel flange, 2024/SXHK/A/0816 - Ver01) and this result shall be valid for a maximum period of two years.

Note: This Statement is issued, on behalf of Client, by SGS-CSTC Standards Technical Services Co., Ltd. ("SGS") under its General Conditions for Green Gas Verification Services available at http://www.sgs.com/terms_and_conditions.htm. The findings recorded hereon are based upon an audit performed by SGS. A full copy of this statement, the findings and the supporting GHG Assertion may be consulted at SHANXI HONGKAI FORGING CO.,LTD. (Cuijiazhuang Industrial Park, Shenshan Township, Dingxiang County, Xinzhou City, Shanxi Province, P.R. China). This Statement does not relieve Client from compliance with any bylaws, federal, national or regional acts and regulations or with any guidelines issued pursuant to such regulations. Stipulations to the contrary are not binding on SGS and SGS shall have no responsibility vis-à-vis parties other than its Client.

This Statement is not valid without the full verification scope, objectives, criteria and findings available on pages 2 to 5 of this Statement.

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CERTIFICATE OF REGISTRATION



Certificate No.: U22Q28025198R0S

The Quality Management Systems of

Shanxi Hongkai Forging Co., Ltd.

Unified Social Credit Code:91140921MA0KMX3982

Cuijiazhuang Industrial Park, Shenshan Township, Dingxiang County, Xinzhou

has been assessed by GIC and complying with

GB/T19001-2016/ISO9001:2015

For the following activities

Manufacturing of forgings

Date of Issue:
13 July 2022

Date of Expiry:
12 July 2025

Date of Initial Certification:
13 July 2022



Scan for certificate status

The granting of this certificate does not mean that the certificate holder can avoid any legal obligation. If the products or activities covered in the scope of certification require administrative license, the certificate shall be only valid within the scope of administrative licensing. The registered organization shall be subject to regular annual supervision by GICG, and the continual validity of the certificate is base upon conformity of audit. Please scan two-dimension code at left to find the certificate information. This certificate can be queried at Certification and Accreditation Administration of the People's Republic of China official website (www.cca.gov.cn) & GICG website (www.gicg.com.cn)



GICG WeChat public number

Signature:

Guardian Independent Certification Ltd
Registered in England
Sovereign House 212-224 Shaftesbury Avenue London EC2A 4BN UK
Accredited by Member of IAF-MLA



0045

ZERTIFIKAT

Die Zertifizierungsstelle für Druckgeräte des
TÜV Thüringen e.V.

bescheinigt,
dass das Unternehmen

Shanxi Hongkai Forging Co., Ltd.

Cuijiazhuang Industrial zone, Shenshan Township,
Dingxiang County, Xinzhou City, P.R. China

ein Qualitätssicherungssystem gemäß
Richtlinie 2014/68/EU Anhang I, Abs. 4.3, eingeführt hat und
entsprechend der DIN EN 764-5, Abs. 4.2, anwendet, sowie die
Anforderungen gemäß AD 2000 Merkblatt W0, Abs. 3.3, erfüllt

Schmiedestücke aus ferritischen und
austenitischen Stählen
Einzelheiten zum Geltungsbereich sind der Anlage
zum Zertifikat zu entnehmen

Art der Werkstoffe / Bauteile :

Spezifische Bewertung Nr. : CN03/52159/22

Zertifikat Nr. : 0090 154 1206

Zertifikat gültig bis : 14 Jul., 2025

initial certification in Jul., 2022



Erfurt, 15 Jul., 2022



V. Kharlaskin
Zertifizierungsstelle für Druckgeräte
TÜV Thüringen e.V.
Benannte Stelle 0090 2014/68/EU



CERTIFICATE

The Certification Body for
Pressure Equipment of TÜV Thüringen e.V.

certifies,
that

Shanxi Hongkai Forging Co., Ltd.

Cuijiazhuang Industrial zone, Shenshan Township,
Dingxiang County, Xinzhou City, P.R. China

has established and applies a quality system acc. to
Directive 2014/68/EU, Annex I, pt. 4.3 and EN 764-5, clause 4.2.

The requirements pursuant to AD 2000 Merkblatt W0,
section 3.3 are met.

Forgings of ferritic and austenitic steels
type of material / parts : Details of the scope are mentioned in the annex of the
certificate

specific assessment no. : CN03/52159/22

certificate no. : 0090 154 1206

certificate expires : 14 Jul., 2025

initial certification in Jul., 2022



Erfurt, 15 Jul., 2022



V. Kharlaskin
Certification Body for Pressure Equipment
TÜV Thüringen e.V.
Notified Body 0090 2014/68/EU



TÜV Thüringen e. V.
Industrie Service

Zertifizierungsstelle für Druckgeräte des TÜV Thüringen e. V.
Certification Body for Pressure Equipment of TÜV Thüringen e. V.
Notified body 0090

Geltungsbereich der Zertifizierung /
Scope of the certification: DGRL, Anlage I, 4.3 / PED, annex I, 4.3
AD 2000 W0

Hersteller /
manufacturer: Shanxi Hongkai Forging Co., Ltd.

Überprüfung von Werkstoffherstellern / Approval for material manufacturer

Anlage zum Zertifikat Nr. / Annex to certificate No.: 0090 154 1206
Berichtsnr. / report no.: CN03/52159/22
Datum / Date: 15.07.2022
Revision: 01 / 15.07.2022

Herstellungsort
/ place: Cuijiazhuang Industrial Zone, Shenshan Township,
Dingxiang County, Yinzhou City, P.R. China

Ild.Nr No.	Werkstoffbezeichnung Material Grade	Spezifikation Specification	Lieferzust. Condition	Erzeugnisform Product Form	Abmessung / Dimension		Prüfgrundlagen Anforderungen Techn. Requirements	Bemerkungen / Remarks
					Dicke [mm] Thickness	Ø [mm]		
1	2	3	4	5	6	7	8	9

1. Werkstoffe gemäß harmonisierter europäischer Norm und europäischer Zulassung für Werkstoffhersteller gemäß Richtlinie 2014/68/EU
Materials in accordance with harmonized European Standard and European Approval for Material Manufacturer pursuant to Directive 2014/68/EU

1.1	1.0352, 1.0460	EN 10222-2	+N,+NT oder +QT	Forging	1)	1)	PED 2014/68/EU	Quality Assurance System is certified acc. to PED 2014/68/EU, annex I, sec. 4.3, by the notified body of TÜV Thüringen e. V. - Registration-no. 0090. 1) According to limitation of technical specification. Disc and ring diameter max. 3 m, weight max. 8 t.
1.2	1.4301, 1.4401	EN 10222-5	+AT	like pos. 1.1	like pos. 1.1	like pos. 1.1		

Erläuterungen / Explanation: +AT / AT = Lösungsgeglüht und abgeschreckt / solution heat treated; +N = Normalgeglüht und normalisierend umgeformt / normalized or normalized rolled
+NT = Normalgeglüht und angelassen / normalized and annealed; +QT / V = vergütet / quenched and tempered; M = Thermomechanisch behandelt / thermomechanical treated
U = Ungeglüht / without annealing; S = Spannungsarmgeglüht / stress relieved; A = weichgeglüht / soft annealed; CR = Temperaturregeligt umgeformt / controlled hot rolled
Hinweis zu Werkstoff gem. Richtlinie 2014/68/EU / Hints for non-harmonized materials use acc. to Directive 2014/68/EU:
Für die spezifischen Einsatzbedingungen ist die Zustimmung des Druckgeräteherstellers bzw. der zuständigen benannten Stelle erforderlich.
For the specific conditions of use, the approval of the pressure equipment manufacturer or the notified body is required.

REVIEWED

Dipl.-Ing. V. Kharlashkin

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TÜV Thüringen e. V.
Industrie Service

Zertifizierungsstelle für Druckgeräte des TÜV Thüringen e. V.
Certification Body for Pressure Equipment of TÜV Thüringen e. V.
Notified body 0090

Geltungsbereich der Zertifizierung /
Scope of the certification: DGRL, Anlage I, 4.3 / PED, annex I, 4.3
AD 2000 W0

Hersteller /
manufacturer: Shanxi Hongkai Forging Co., Ltd.

Überprüfung von Werkstoffherstellern / Approval for material manufacturer

Anlage zum Zertifikat Nr. / Annex to Certificate No.: 0090 154 1206
Berichtsnr. / report no.: CN03/52159/22
Datum / Date: 15.07.2022
Revision: 01 / 15.07.2022

Herstellungsort
/ place: Cuijiazhuang Industrial Zone, Shenshan Township,
Dingxiang County, Ningbo City, P.R. China

Ild.Nr No.	Werkstoffbezeichnung Material Grade	Spezifikation Specification	Lieferzust. Condition	Erzeugnisform Product Form	Abmessung / Dimension		Prüfgrundlagen Anforderungen Techn. Requirements	Bemerkungen / Remarks
					Dicke [mm] Thickness	Ø [mm]		
1	2	3	4	5	6	7	8	9

3. Werkstoffe gemäß internationalen Standards (z. B. ASTM, ASME, IBR, GOST usw.)
Materials in accordance with international standards (e.g. ASTM, ASME, IBR, GOST etc.)

3.1	A105	ASME SA105/SA105M	acc.to specification	Forging	1)	1)		In case of delivery according to Directive 2014/68/EU, a Particular Material Appraisal (PMA) is required by the notified body of TÜV Thüringen e. V. (Reg. no. 0090). 1) According to limitation of technical specification. Disc and ring diameter max. 3 m, weight max. 8 t.
3.2	F11, F304, F316, F22, F51	ASME SA182/SA182M	like pos. 2.1	like pos. 2.1	like pos. 2.1	like pos. 2.1		
3.3	LF2	ASME SA350/SA350M	like pos. 2.1	like pos. 2.1	like pos. 2.1	like pos. 2.1		
3.4	F60	ASME SA664/SA664M	like pos. 2.1	like pos. 2.1	like pos. 2.1	like pos. 2.1		

Erläuterungen / Explanation: +AT / AT = Lösungsgeglüht und abgeschreckt / solution heat treated; +N = Normalgeglüht und normalisierend umgeformt / normalized or normalized rolled
+NT = Normalgeglüht und angelassen / normalized and annealed; +QT / V = vergütet / quenched and tempered; M = Thermomechanisch behandelt / thermomechanical treated
U = Ungeglüht / without annealing; S = Spannungsarmgeglüht / stress relieved; A = weichgeglüht / soft annealed; CR = Temperaturregeligt umgeformt / controlled hot rolled
Hinweis zu Werkstoff gem. Richtlinie 2014/68/EU / Hints for non-harmonized materials use acc. to Directive 2014/68/EU:
Für die spezifischen Einsatzbedingungen ist die Zustimmung des Druckgeräteherstellers bzw. der zuständigen benannten Stelle erforderlich.
For the specific conditions of use, the approval of the pressure equipment manufacturer or the notified body is required.

REVIEWED

Dipl.-Ing. V. Kharlashkin

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Page 3 of 3

rev. 7.1



TÜV Thüringen e. V.
Industrie Service

Zertifizierungsstelle für Druckgeräte des TÜV Thüringen e. V.
Certification Body for Pressure Equipment of TÜV Thüringen e. V.
Notified body 0090

Geltungsbereich der Zertifizierung /
Scope of the certification: DGRL, Anlage I, 4.3 / PED, annex I, 4.3
AD 2000 W0

Hersteller /
manufacturer: Shanxi Hongkai Forging Co.,Ltd.

Überprüfung von Werkstoffherstellern / Approval for material manufacturer

Anlage zum Zertifikat Nr. / Annex to Certificate No.: 0090-154-1206
Berichtsnr. / report no.: CN03/57260/23
Datum / Date: 03.06.2024
Revision: 01 / 03.06.2024

Herstellungsort /
place: Cuijiazhuang Industrial zone, Shenshan Township, Dingxiang
County, Xinzhou City, P.R. China

Itd.Nr No.	Werkstoffbezeichnung Material Grade	Spezifikation Specification	Lieferzust. Condition	Erzeugnisform Product Form	Abmessung / Dimension		Prüfgrundlagen Anforderungen Techn. Requirements	Bemerkungen / Remarks
					Dicke [mm] Thickness	Ø [mm]		
1	2	3	4	5	6	7	8	9
3. Werkstoffe gemäß internationalen Standards (z. B. ASTM, ASME, IBR, GOST usw.) Materials in accordance with International standards (e.g. ASTM, ASME, IBR, GOST etc.)								
3.1	A105	ASME SA105/SA105M	acc.to specification	Forging	1)	1)		In case of delivery according to Directive 2014/68/EU, a Particular Material Appraisal (PMA) is required by the notified body of TÜV Thüringen e. V. (Reg. no. 0090) 1) According to limitation of technical specification. Disc and ring diameter Max.3m, weight max.8t.
3.2	F11, F304, F316, F22, F51	ASME SA182/SA182M	like pos. 3.1	like pos. 3.1	like pos. 3.1	like pos. 3.1		
3.3	LF2	ASME SA350/SA350M	like pos. 3.1	like pos. 3.1	like pos. 3.1	like pos. 3.1		
3.4	F60	ASME SA694/SA694M	like pos. 3.1	like pos. 3.1	like pos. 3.1	like pos. 3.1		

Erläuterungen / Explanation: +AT / AT = Lösungsgeglüht und abgeschreckt / solution heat treated; +N = Normalgeglüht und normalisierend umgeformt / normalized or normalized rolled
+NT = Normalgeglüht und angelassen / normalized and annealed; +QT / V = vergütet / quenched and tempered; M = Thermomechanisch behandelt / thermomechanical treated
U = Ungeglüht / without annealing; S = Spannungsarmgeglüht / stress relieved; A = weichgeglüht / soft annealed; CR = Temperaturregelmäßig umgeformt / controlled hot rolled
Hinweis zu Werkstoff gem. Richtlinie 2014/68/EU / Hints for non-harmonized materials use acc. to Directive 2014/68/EU:
Für die spezifischen Einsatzbedingungen ist die Zustimmung des Druckgeräteherstellers bzw. der zuständigen benannten Stelle erforderlich.
For the specific conditions of use, the approval of the pressure equipment manufacturer or the notified body is required.

Zertifikat Werkstoffhersteller Geltungsbereich

Seite 3 von 3

REVIEWED
Dipl.-Ing. V. Kharlashkin

rev 03/23



TÜV Thüringen e. V.
Industrie Service

Zertifizierungsstelle für Druckgeräte des TÜV Thüringen e. V.
Certification Body for Pressure Equipment of TÜV Thüringen e. V.
Notified body 0090

Geltungsbereich der Zertifizierung /
Scope of the certification: DGRL, Anlage I, 4.3 / PED, annex I, 4.3
AD 2000 W0

Hersteller /
manufacturer: Shanxi Hongkai Forging Co.,Ltd.

Überprüfung von Werkstoffherstellern / Approval for material manufacturer

Anlage zum Zertifikat Nr. / Annex to Certificate No.: 0090-154-1206
Berichtsnr. / report no.: CN03/57260/23
Datum / Date: 03.06.2024
Revision: 01 / 03.06.2024

Herstellungsort /
place: Cuijiazhuang Industrial zone, Shenshan Township, Dingxiang
County, Xinzhou City, P.R. China

Itd.Nr No.	Werkstoffbezeichnung Material Grade	Spezifikation Specification	Lieferzust. Condition	Erzeugnisform Product Form	Abmessung / Dimension		Prüfgrundlagen Anforderungen Techn. Requirements	Bemerkungen / Remarks
					Dicke [mm] Thickness	Ø [mm]		
1	2	3	4	5	6	7	8	9
1. Werkstoffe gemäß harmonisierter europäischer Norm und europäischer Zulassung für Werkstoffhersteller gemäß Richtlinie 2014/68/EU Materials in accordance with harmonized European Standard and European Approval for Material Manufacturer pursuant to Directive 2014/68/EU								
1.1	1.0352 (P245GH), 1.0460 (P250GH), 1.0462 (P280GH)	EN 10222-2	+N, +NT or +QT	Forging	1)	1)	PED 2014/68/EU	Quality Assurance System is certified acc. to PED 2014/68/EU, annex I, sec. 4.3, by the notified body of TÜV Thüringen e. V. - Registration-no. 0090. 1) According to limitation of technical specification. Disc and ring diameter Max.3m, weight max.8t.
1.2	1.4301, 1.4401	EN 10222-5	+AT	like pos. 1.1	like pos. 1.1	like pos. 1.1		

Erläuterungen / Explanation: +AT / AT = Lösungsgeglüht und abgeschreckt / solution heat treated; +N = Normalgeglüht und normalisierend umgeformt / normalized or normalized rolled
+NT = Normalgeglüht und angelassen / normalized and annealed; +QT / V = vergütet / quenched and tempered; M = Thermomechanisch behandelt / thermomechanical treated
U = Ungeglüht / without annealing; S = Spannungsarmgeglüht / stress relieved; A = weichgeglüht / soft annealed; CR = Temperaturregelmäßig umgeformt / controlled hot rolled
Hinweis zu Werkstoff gem. Richtlinie 2014/68/EU / Hints for non-harmonized materials use acc. to Directive 2014/68/EU:
Für die spezifischen Einsatzbedingungen ist die Zustimmung des Druckgeräteherstellers bzw. der zuständigen benannten Stelle erforderlich.
For the specific conditions of use, the approval of the pressure equipment manufacturer or the notified body is required.

Zertifikat Werkstoffhersteller Geltungsbereich

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Zertifizierungsstelle für Druckgeräte des TÜV Thüringen e. V.
Certification Body for Pressure Equipment of TÜV Thüringen e. V.
Notified body 0090

Geltungsbereich der Zertifizierung /
Scope of the certification: DGRL, Anlage I, 4.3 / PED, annex I, 4.3
AD 2000 W0

Hersteller /
manufacturer: Shanxi Hongkai Forging Co.,Ltd.

Überprüfung von Werkstoffherstellern / Approval for material manufacturer

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Ifd.Nr No.	Werkstoffbezeichnung Material Grade	Spezifikation Specification	Lieferzust. Condition	Erzeugnisform Product Form	Abmessung / Dimension		Prüfgrundlagen Anforderungen Techn. Requirements	Bemerkungen / Remarks
					Dicke [mm] Thickness	Ø [mm]		
1	2	3	4	5	6	7	8	9

2. Werkstoffe gemäß AD 2000 Werkstoffblatt Materials in accordance with AD 2000 Code								
2.1	1.0352 (P245GH), 1.0460 (P250GH), 1.0462 (P280GH)	EN 10222-2	+N, +NT or +QT	Forging	1)	1)	AD 2000 W9 / W13	Quality Assurance System is Approved acc. to AD 2000 W0 section 3.3 by the notified body of TÜV Thüringen e. V. (Reg. no. 0090). 1) According to limitation of technical specification, Disc and ring diameter Max.3m, weight max.8t.
2.2	1.4301, 1.4401	EN 10222-5	+AT	like pos. 2.1	like pos. 2.1	like pos. 2.1	AD 2000 W2 / W10	
2.3	S235JRG2, S355J2G3	EN 10250-2	+N, +NT or +QT	like pos. 2.1	like pos. 2.1	like pos. 2.1	AD 2000 W9 / W13	