Stellungnahme zur Anwendbarkeit der RL 94/9/EG (ATEX)

Für Geräte und Komponenten zur Verwendung in explosionsgefährdeten Bereichen

Statement for application of directive 94/9/EC

For Equipment and Components Intended for Use in Potentially Explosive Atmospheres

Gegenstand: Gerät/Komponente, Typ Subject: Equipment/Component type	**Non-sparking Striking Box Wrench Type: 41mm**
Hergestellt und zur Prüfung vorgelegt Manufactured and submitted for examination	**Hebei Botou Safety Tools Co., Ltd.**
Anschrift Address	**No. 2 Wugang Road, Industrial Park, Botou City, Hebei,P.R. China**
Prüfgrundlage Basis for examination	**Anhang II der Richtlinie 94/9/EG Annex II of Directive 94/9/EC**
Verwendete Normen Standard basis	**EN 1127-1: 2011; EN 13463-1:2009**
Prüfgrundlage für Sicherheits- und Gesundheitsanforderungen, die nicht von den verwendeten Normen abgedeckt werden Basis for those health and safety requirements not covered by the standard basis	**Entfällt Not relevant**
Schutzartkennzeichen Code for type of protection	**Entfällt Not relevant**
Prüfergebnis: Examination result	**Die Schlüssel fallen nicht unter den Anwendungsbereich der Richtlinie94/9/EG. Sie haben keine eigenen Zündquellen. The Wrench are not in the guilty of the directive 94/9/EC. They have no own ignition sources.**
Prüfbericht-Nr: Assessment report number	**16803970**

TUV Rheinland (China) Ltd.
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Wang Yang | Zhang Xiaolong

Mitarbeiter der Zertifizierstelle für Ex - Produkte

Assessment Report
No.: 16803970

Assessment of the application of Directive 94/9/EC
for Equipment and Components intended for use in potentially explosive atmospheres.

Subject: Equipment/Component type	**Non-sparking Striking Box Wrench**
Manufactured and submitted for examination	**Hebei Botou Safety Tools Co., Ltd.**
Address	**No. 2 Wugang Road, Industrial Park, Botou City, Hebei,P.R. China**
Basis for examination	**Annex II of Directive 94/9/EC**
Standard basis	**EN 1127-1:2011 EN 13463-1:2009**
Basis for those health and safety requirements not covered by the standard basis	**Not relevant**
Code for type of protection	**Not relevant**
Offer number	**ATEX (not listed)**
Supplementary assessment report number	**N/A**

1) **Equipment/Component type:**

Non-Sparking Striking Box Wrench (41mm).

2) **Description**

Non-Sparking Striking Box Wrench (41mm).

3) **Documentation: (As referred to the technical documentation file stored in Notified Body, such as example of below listed)**

Nr.	Description	from	Pages	signature am / from
	Model Name: Non-sparking Striking Box Wrench			
1.	Drawings	Oct. 2014	1	JinPing Zhang
2.	Design Calculation	Oct. 2014	2	JinPing Zhang
3.	User manual	Oct. 2014	2	JinPing Zhang
	Annex:			
4.	ATEX Hazard Analysis Report	Oct. 2014	7	JinPing Zhang
5.	ISO 9001:2008 Certificate	Oct. 2014	1	JinPing Zhang
6.	Material Certificate (01 220 CHN/T-1403131_EN)	Oct. 2014	3	TÜV Rheinland
7.	Material illustration for element (Ni + Co)	Nov. 2014	1	JinPing Zhang
8.	Declaration -of- conformity (Certified by manufacturer)	Oct. 2014	1	JinPing Zhang
9.	Final test Report (120104123 & Product Test Report)	Oct. 2014	5 & 1	JinPing Zhang

4) **Technical Data**

Accordance to DIN 7444:1982

Material in accordance to the material certificate: Explosion-proof wrench (01 220 CHN/T-1403131_EN)

Be: 1.85%

Co: below 0.002%

Ni: 0.14%

Fe: 0.026%

Cu: 97.88%

Note: The Co, Ni level of the element do not effect explosion-proof performance of Explosion-proof wrench, please refer to document Material illustration for Ni + Co.

5) **Marking**

The marking with following information's
- Name, address and Brand accrdance DIN 7444
- Type / Size

- Year of manufacturing
- Serial number
- Material signal
- ATEX marking: not needed

6) Testresult, Conditions for the save usage or save Application / Application instructions

In order to avoid corrosion of tools, do not use non-sparking tools in direct contact with ammonia, acetylene, certain salts, fluorine, chlorine, chromium ,ammonium, dichromate etc. in the presence of moisture. Some medium contact with copper alloy will produce chemical reaction which will generate high risk explosive material, for example, acetylene and copper will generate cuprous acetylene. The Non-sparking tools should be used in a dry condition. If it is inevitable, one should try to speeding up to prevent danger caused by greater corrosion risk.

Clear up the striking face every three or four times hitting to prevent sparks induced by impact of the three kinds materials, avoid work accidents caused by misuse.

Keep the surface clean any time after use. The tool is strictly prohibited to pack in the same carton with corrosive materials. For more than six months without use ,the tools should be preserving after coating with oil or other antiseptic treatment.

Avoid using too much force and exceed the maximum intensity. Select the right tools for task, never use small size spanners replace a bigger one.

Note 1: Do not use non-sparking tools in direct contact with ammonia, acetylene, certain salts, fluorine, chlorine, chromium, ammonium, dichromate etc.

Note 2: Non-sparking wrench is used the impact velocity is less than or equal to 15 m/s and the maximum potential energy is less than 60 J for gas/vapour-atmospheres.

7) relevant informations- for health and safety

The knowledge of the characteristics and special conditions are essential for the save usage of the non-Sparking Wrench.

TÜV Rheinland (China) Ltd. **Unit 707,AVIC Building,No.10B,Central Road East 3rd Ring Roa,Chaoyang District Beijing 100022, P.R.China**	**TÜV Rheinland (China) Ltd.** **Unit 707,AVIC Building,No.10B,Central Road East 3rd Ring Roa,Chaoyang District Beijing 100022, P.R.China**	**Beijing, 2014-11-19**
Zhangxiaolong Vice General Manager	Wang Yang Project Manager Morton Ma Project Engineer	

Test Report No.: 01 220 CHN/T-1403131_EN

Test Report

Applicant: Hebei Botou Safety Tools Co., Ltd.

Applicant address: No.2 Wugang Road, Industrial Park, Botou City, Hebei, P.R.China

Testing period: Oct.24, 2014~Nov.4, 2014

Test report 01 220 CHN/T-1403131 exists in two official versions, English version and Chinese version, with suffixes "_EN" and "_CN" following test report No. to distinguish respectively.

For and on behalf of
TÜV Rheinland (Shanghai) Co., Ltd.

Yixiang Shen

Nov.4, 2014	Yixiang Shen Metal Materials Lab Authorized Signatory
Date	Name

Test Report No.: 01 220 CHN/T-1403131_EN

1. Sample information:

Sample name:	Explosion-proof wrench
Sample No.:	SHM20141003131
Sample receiving date:	Oct.24, 2014
Sample description:	A piece of metal wrench
Other information:	Product specification: 41; Product or Lot No.: DIN 7444; Material and Mark: beryllium bronze.

Sample photo(s):

Test Report No.: 01 220 CHN/T-1403131_EN

2. Test result:

Chemical composition analysis:
Test method: GB/T 5121.1-2008; GB/T 5121.27-2008

Element	Cu	Co	Ni	Fe	Be
Result,%	97.88	<0.002	0.14	0.026	1.85

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