



## Welder Approval Test Certificate

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1  
2 Designation: **EN 287-1 141 P FW 8 S t1.2 PC sl**  
3  
4 Manufacturer's WPS: pWPS2012-4  
5 Reference No.: 748255493 Inspection No.: 0036/SHA/ 748255493-26  
6 Welder's name: **Gao Huafeng**  
7 Identification: 210105196201061234  
8 Method of identification: ID card Photograph (if required)  
9 Date and place of birth: 1962-01-06 / Shenyang, Liaoning Province, P.R. China  
10 Employer: Shenyang Aerosun-Futai Expansion Joint Co., Ltd.  
11 Code / testing standard: EN 287-1  
12 Remark: --  
13 Job knowledge: not tested

13	Weld test details	Range of approval
14	Welding process(es)	141, 142, 143 and 145
15	Product (plate/tube)	T, P
16	Joint type	FW
17	Parent metals (groups)	8, 9.2, 9.3, 10
18	Filler metal type	Root: S; Fill: S, M, nm
18	Designation	--
19	Shielding gas / flux	suitable shielding gases
20	Auxiliaries	--
21	Mat. thickness (mm)	1.2 to 3
22	Tube-Ø (outside) (mm)	≥150
23	Welding positions	PA, PB, PC
24	Details of welding	sl

25 Additional information: fulfills pressure equipment directive 97/23/EC

26	Type of test	performed and acceptable	not required
27			
28			
29	Visual test	yes	--
30	Radiography	--	x
31	Magn. particle / penetr.	--	x
32	Macro testing	yes	--
33	Fracture	--	x
34	Bend	--	x
35	Additional tests <sup>1)</sup>	--	x
36			

Name and signature: LV San

Personnel certification board  
TÜV SÜD Industrie Service GmbH

Date of welding: 2012-04-10

Location: Shanghai

Validity of approval until: 2014-04-09

PROLONGATION FOR APPROVAL  
BY EMPLOYER OR SUPERVISOR  
(for the following 6 months)37 <sup>1)</sup> Append separate sheet if required38 PROLONGATION FOR APPROVAL BY INSP. AUTHORITY  
(for the following 2 years)

39	Date	Signature	Position or title

Date	Signature	Position or title

40 TÜV SÜD Industrie Service GmbH, Shanghai Office, No. 88 Heng Tong Road, Shanghai 200070, P. R. China, Tel: +86 21 6141 0123, Fax: +86 21 6140 8600



Industrie Service

## Welder Approval Test Certificate

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2 Designation: **EN 287-1 141 P FW 8 S t0.8 PC sl**  
 3  
 4 Manufacturer's WPS: pWPS2012-3  
 5 Reference No.: 748255493 Inspection No.: 0036/SHA/ 748255493-27  
 6 Welder's name: **Wang Hui**  
 7 Identification: 210103196912163330  
 8 Method of identification: ID card  
 9 Date and place of birth: 1969-12-16 / Shenyang, Liaoning Province, P.R. China  
 10 Employer: Shenyang Aerosun-Futai Expansion Joint Co., Ltd.  
 11 Code / testing standard: EN 287-1  
 Remark: --  
 12 Job knowledge: not tested

 Photograph  
(if required)

	Weld test details	Range of approval
14 Welding process(es)	141 TIG welding with solid filler material	141, 142, 143 and 145
15 Product (plate/tube)	P (Plate)	T, P
16 Joint type	FW (Fillet weld)	FW
17 Parent metals (groups)	8	8, 9.2, 9.3, 10
18 Filler metal type	solid wire / bar (S)	Root: S; Fill: S, M, nm
Designation	EN ISO 14343-A: W 19 9 L	--
19 Shielding gas / flux	EN ISO 14175-I1	suitable shielding gases
20 Auxiliaries	--	--
21 Mat. thickness (mm)	0.8	0.8 to 3
22 Tube-Ø (outside) (mm)	--	≥ 150
23 Welding positions	PC (transverse)	PA, PB, PC
24 Details of welding	sl(single layer)	sl

25 Additional information: fulfills pressure equipment directive 97/23/EC

	performed and acceptable	not required
26 Type of test		
27		
28		
29 Visual test	yes	--
30 Radiography	--	x
31 Magn. particle / penetr.	--	x
32 Macro testing	yes	--
33 Fracture	--	x
34 Bend	--	x
35 Additional tests <sup>1)</sup>	--	x
36		

Name and signature: LV San

 Personnel certification board  
TÜV SÜD Industrie Service GmbH

Date of welding: 2012-04-10

Location: Shanghai

Validity of approval until: 2014-04-09

 PROLONGATION FOR APPROVAL  
BY EMPLOYER OR SUPERVISOR  
(for the following 6 months)

 37 <sup>1)</sup> Append separate sheet if required

 38 PROLONGATION FOR APPROVAL BY INSP. AUTHORITY  
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## 1 CERTIFICATE/APPROVAL TEST CERTIFICATE

2 Designation: **Welding Operator**

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4 Manufacturer's welding specification: pWPS2012-1

5 Reference no.: (if applicable) 748255493 Certificate no.: 0036/SHA/ 748255493-25

6 Name of welding operator: **Guo Kuijun**

7 Identification no.: 210104198505050932

8 Kind of identification: I.D. Card

Photograph (if required)

9 Date and place of birth: 1985-05-05/ Shenyang, Liaonin, P. R. China

10 Employer: Shenyang Aerosun-Futai Expansion Joint Co., Ltd.

11 Code / testing standard: EN 1418

12 Remark: --

13 Job knowledge: not tested

14	Welding details	Range of approval
15	Welding process	142 Autogenous TIG welding
16	Welding equipment	Master Tig MLS 3000(Jetline Engineering, Inc.)
17	Details acc. to EN 1418 para.4.2.5(for automatic and robot welding only):	
18	Seam sensor	--
19	Single run/multiple run technique	Single run
20	Robot type	9028 and 9029
21	Other essential variables	--

22 Additional information: fulfills pressure equipment directive 97/23/EC

23	The approval is based on:			Name and signature: LV San		
24	- Welding procedure qualification acc. to EN 1418, 4.2.1 <input checked="" type="checkbox"/>					
25	- Pre-production welding test or production test acc. to EN 1418 para. 4.2.2 <input type="checkbox"/>					
27	- Random test acc. to EN 1418 para. 4.2.3 <input type="checkbox"/>					
28	- Function test acc. To EN 1418 para. 4.2.4 <input type="checkbox"/>					
29	Results of the approval test see document no.: EN11RTPQR-18 (available at the inspection authority)			Personnel certification board**) TÜV SÜD Industrie Service GmbH  Date of issue: 2012-04-10 Location: Shanghai Valid until: 2014-04-09		
30	Prolongation for approval by inspection authority for the following 2 years(see EN 1418 para.5)			Prolongation for approval by employer/welding supervisor for the following 6 months (see EN 1418 para.5)		
31	Date	Signature	Position or title	Date	Signature	Position or title

\*\* TÜV SÜD Industrie Service GmbH, Shanghai Office, No. 88 Heng Tong Road, Shanghai 200070, P. R. China, Tel: +86 21 6141 0123, Fax: +86 21 6140 8600