

CERTIFICATE

of Conformity of the Factory Production Control

1922 - CPR - 1481

In compliance with Regulation (EU) No 305/2011 of the European Parliament and of the Council of 9 March 2011 (the Construction Products Regulation or CPR), this certificate applies to the construction product

Welding consumables - General product standard for filler metals and fluxes for fusion welding of metallic materials.

(For list of products see Annex I to 1922-CPR-1481 that is an inseparable part of this certificate)

placed on the market under the name or trade mark of

Royal Arc Electrodes Ltd.

**72 B, Bombay Talkies Compound, Malad West, Mumbai 400064,
Maharashtra, India**

and produced in the manufacturing plant

Royal Arc Electrodes Ltd.

**Plot No. 6, Survey No. 91/Paiki-4, Near Sheela Foam, Village- Zarolli,
Tal.- Umbergaon, Dist.- Valsad-396105, Gujarat, India**

This certificate attests that all provisions concerning the assessment and verification of constancy of performance described in Annex ZA of the standard

EN 13479:2017

under system 2+ are applied and that the factory production control is assessed to be in conformity with the applicable requirements.

This certificate was first issued on 25.01.2021 and will remain valid until 25.01.2025 as long as neither the harmonised standard, the construction product, the AVCP methods nor the manufacturing conditions in the plant are modified significantly, unless suspended or withdrawn by the notified factory production control certification body. The certificate is supported through annual surveillance audit and is reissued after each surveillance audit. The validity of the certificate may be confirmed in the CE register at the web address www.dedal-bg.net.



Manager:

Banuba

dipl. eng. Anna Vasileva

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**ANNEX I TO CERTIFICATE OF CONFORMITY OF THE FACTORY
PRODUCTION CONTROL 1922-CPR-1481/ 09.01.2024 (page 1/6)**

List of products:

No.	Brand Name	AWS class	EN Classification
EN ISO 2560 A			
1	Royal 6010	E-6010	E 38 3 C 21
2	Royal 6011	E 6011	E 38 3 C 21
3	Royal Speed	E 6012	E 38 3 C 11
4	Royal Bond	E 6013	E 38 0 R 11
5	Royal S	E 6013	E 38 0 RR 12
6	Royal SS	E 6013	E 38 0 RR 12
7	Royal 7010 P1	E 7010 P1	E 42 2 C 21
8	Royal 724	E 7024	E 42 0 RR 33
9	Royal 7015	E 7015	E 38 3 B 32 H5
10	Royal 7016	E 7016	E 38 3 B 32 H5
11	Royal 7016 W	E 7016 W	E 38 3 B 32 H5
12	Royal 7016 Spl	E 7016-1	E 38 4 B 32 H5
13	Royal Therm	E 7018	E 42 3 B 32 H5
14	Royal Therm Spl	E 7018-1	E 46 4 B 32 H5
15	Royal Therm H4R	E 7018 H4R	E 42 3 B 32 H5
16	Royal Therm Spl H4R	E 7018-1 H4R	E 46 3 B 32 H5
17	Royal Therm (2H) Spl	E 7018 NACE	E 42 3 B 32 H5
18	Royal 8018 C1	E 8018 C1	E 46 6 2Ni B 32 H5
19	Royal 8018 C2	E 8018 C2	E 46 6 3Ni B 32 H5
20	Royal 8016 C2L	E 8016 C2L	E 46 6 3Ni B 32 H5
21	Royal 8018 C3	E 8018 C3	E 46 4 1Ni B 32 H5
22	Royal 8018 W	E 8018 W2	E 46 5 Z B 32 H5
23	Royal 7018 C3L	E 7018 C3L	E 42 5 1Ni B 32 H5
24	Royal Therm Ni Spl	E 8018G	E 46 5 1Ni B 12 H5
25	Royal 9018G	E 9018G	E 52 5 Z B 32 H5
26	Royal 7018 G	E 7018 G	E 42 5 Z B 32 H5
27	Royal 8016 G	E 8016 G	E 46 5 1Ni B 12 H5



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List of products:

EN ISO 18275 A			
1	Royal 9018M	E 9018M	E 55 4 1.5NiMo B 32 H5
2	Royal Therm 100M	E 10018M	E 69 5 2NiMo B 32 H5
3	Royal Ni Chrome	E 10016 G	E 62 3 Z B 32 H5
5	Royal Therm 110M	E 11018M	E 69 5 Z B 32 H5
6	Royal Therm 120M	E 12018M	E 69 5 Z B 32 H5
7	Royal Therm 120G	E 12018G	E 69 5 Z B 32 H5
8	Royal Therm 100D2	E 10018D2	E 55 4 Z B 32 H5
9	Royal Moly therm Spl	E 8018 D3	E 46 4 Z B 32 H5
10	Royal 9018D	E 9018D1	E 55 3 Z B 32 H5
11	Royal Therm 90D	E 9018 D3	E 55 3 Z B 32 H5
EN ISO 3580 A			
1	Royal Therm Moly	E 7018-A1	E Mn B 32 H5
2	Royal 8016 B1	E 8016 B1	E CrMo 0.5 B 32 H5
3	Royal 8018 B1	E 8018 B1	E CrMo 0.5 B 32 H5
4	Royal 7015 B2L	E 7015 B2L	E CrMo 1 L B 32 H5
5	Royal 7018 B2L	E 7018 B2L	E CrMo 1 L B 32 H5
6	Royal 7018 B2	E 7018 B2	E CrMo 1 B 32 H5
7	Royal 8016 B2	E 8016 B2	E CrMo 1 B 32 H5
8	Royal Chrome-1	E 8018 B2	E CrMo 1 B 32 H5
9	Royal 8018 B3L	E 8018 B3L	E CrMo 2 L B 32 H5
10	Royal Chrome-2	E 9018 B3	E CrMo 2 B 32 H5
11	Royal 9016 B3	E 9016 B3	E CrMo 2 B 32 H5
12	Royal 9018 B3 L	E 9018 B3L	E CrMo 2 L B 32 H5
13	Royal Chrome-5	E 8018-B6	E CrMo 5 B 32 H5
14	Royal Chrome-5 Basic	E 8015-B6	E CrMo 5 B 32 H5
15	Royal Chrom-9	E 8018 B8	E CrMo 9 B 32 H5
16	Royal Chrom-9 Basic	E 8018 B8	E CrMo 9 B 32 H5
17	Royal 9018 B9	E 9018 B 9	E CrMo 9 1 B 32 H5
18	Royal Chrom-9 spl	E 9015 B 9	E CrMo 9 1 B 32 H5



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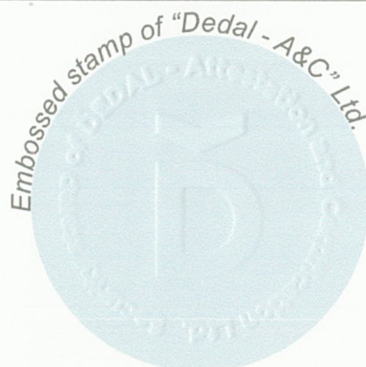
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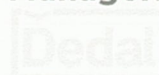
ANNEX I TO CERTIFICATE OF CONFORMITY OF THE FACTORY PRODUCTION CONTROL 1922-CPR-1481/ 09.01.2024 (page 3/6)

List of products:

EN ISO 3581 A			
1	Royal 1A	E 308-16	E 19 9 R 12
2	Royal 1A	E 308-17	E 19 9 R 12
3	Royal 1AH	E 308H-16	E 19 9 H R 12
4	Royal 2A	E 316-16	E 19 12 2 R 12
5	Royal 2A	E 316-17	E 19 12 2 R 12
6	Royal 1C	E 308L-16	E 19 9 LR 12
7	Royal 1C	E 308L-17	E 19 9 LR 12
8	Royal 1C Basic	E 308L-15	E 19 9 LB 22
9	Royal 2C	E 316L-16	E 19 12 3 LR 12
10	Royal 2C	E 316L-17	E 19 12 3 LR 12
11	Royal 2C Basic	E 316L-15	E 19 12 3 LB 22
12	Royal D2	E 309-16	E 22 12 R 12
13	Royal D2	E 309-17	E 22 12 R 12
14	Royal D2 Basic	E 309-15	E 22 12 B 22
15	Royal D2L	E 309L-16	E 22 12 LR 12
16	Royal D2L Mod	E 309L-17	E 22 12 LR 12
17	Royal D2L Basic	E 309L-15	E 22 12 LB 22
18	Royal D2Mo	E 309Mo-16	E 22 12 2 R 12
19	Royal D2MoL	E 309MoL-17	E 22 12 2 LR 12
20	Royal D2MoL	E 309MoL-16	E 22 12 2 LR 12
21	Royal CW	E 310-16	E 25 20 R 12
22	Royal CW	E 310-17	E 25 20 R 12
23	Royal CW Basic	E 310-15	E 25 20 B 22
25	Royal 1B	E 347-16	E 19 9 Nb R 12
26	Royal 1B	E 347-17	E 19 9 Nb R 12
27	Royal 1B BASIC	E 347-15	E 19 9 Nb B22
28	Royal 2B	E 318-16	E 19 12 3 Nb R 12
29	Royal 2B	E 318-17	E 19 12 3 Nb R 12
30	Royal 309 Cb	E 309 Cb-16	E 22 12 Nb R 12
31	Royal 309 Cb	E 309 Cb-17	E 22 12 Nb R 12
32	Royal 309 Cb Basic	E 309 Cb-15	E 22 12 Nb B 22
34	Royal 312	E 312-16	E 29 9 R 12
35	Royal 317 L	E 317L-16	E 19 12 3 LR 12
36	Royal 317 L	E 317L-17	E 19 12 3 LR 12
37	Royal 385 ZF	E 385-16	E 20 25 5 CuN LR 12
38	Royal 18/8/5	E 18/8 Mn R26	E 18 8 Mn B 22
39	Royal Chrome-13	E 410-15	E 13 B 22
40	Royal Chrome- 13/4	E 410-15 Ni MoX	E 13 4 B 22
41	Royal Chrome-17	E 430-15	E 17 B 22
42	Royal 2209	E 2209-16	E 22 9 3 N LR 12
43	Royal 2209	E 2209-17	E 22 9 3 N LR 12
44	Royal 2209Basic	E 2209-15	E 22 9 3 N L B 22
45	Royal 2553	E 2553-16	E 25 9 3 CuN LR 22
46	Royal 2594	E 2594-16	E 25 9 4 N L R 12
47	Royal 2594 Basic	E 2594-15	E 25 9 4 N L B 22



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List of products:

ISO 1071			
1	Royal Cast	E St	EC Fe 1 3
2	Royal Cast - N	E Ni Cl	EC Ni-Ci-1
3	Royal Cast Fe-Ni	E Ni Fe Ci	EC NiFeCi-1
4	Royal Cast - CN	E Ni Cu B	EC NiCuB-1
ISO 14172			
1	Royal Cast FE 2	E Ni Cr Fe2	E Ni 6082
2	Royal Cast 3	E Ni Cr Fe3	E Ni 6182
3	Royal Cast Mo 3	E Ni Cr Mo 3	E Ni 6625
4	Royal Cast Mo 4	E Ni Cr Mo 4	E Ni 6276
5	Royal Cast Mo 6	E Ni Cr Mo 6	E Ni 6620
6	Royal NiCrCoMo -1	E Ni Cr Co Mo -1	E Ni 6617
7	Royal Monel	E Ni Cu 7	E Ni 4060
8	Royal Cast -Ni-1	E Ni-1	E Ni 2061
ISO 14341 A			
1	ROYAL 70S3	ER 70S3	G 46 2 C1 2Si
2	ROYAL 70S6	ER 70S6	G 46 3 C1 3Si1
ISO 21952 A			
1	Royal ER 80SB2	ER 80SB2	G/W Z CrMo1 Si G
2	Royal ER 80SB6	ER 80SB6	G/W CrMo 5 Si
3	Royal ER 90SB3	ER 90SB3	G/W Z CrMo2 Si
4	Royal ER 90SB9	ER 90SB9	G/W CrMo 91
ISO 16834 A			
1	Royal ER 90SG	ER 90SG	G/W CrMo 2 Si
2	Royal ER 80SG	ER 80SG	G/W Z Mn3Ni1Cu
ISO 14343 A			
1	Royal ER 308	ER 308	G/W 19 9
2	Royal ER 308L	ER 308L	G/W 19 9 L
3	Royal ER 308H	ER 308H	G/W 19 9 H
4	Royal ER 316	ER 316	G/W 19 12 3
5	Royal ER 316L	ER 316L	G/W 19 12 3 L
6	Royal ER 309	ER 309	G/W 23 12 L
7	Royal ER 309L	ER 309L	G/W 23 12 L
8	Royal ER 309 Mo	ER 309Mo	G/W 23 12 2
9	Royal ER 309L Mo	ER 309L Mo	G/W 23 12 2 L
10	Royal ER 310	ER 310	G/W 25 20
11	Royal ER 317L	ER 317L	G/W 19 12 3 L
12	Royal ER 347	ER 347	G/W 19 9 Nb
13	Royal ER 410	ER 410	G/W 13
14	Royal ER 430	ER 410	G/W 17
15	Royal ER 2209	ER 2209	G/W 22 9 3 N L
16	Royal ER 2594	ER 2594	G/W 25 9 4 N L



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List of products:

ISO 18274			
1	Royal ER NiCr3	ER NiCr3	S Ni 6082
2	Royal ER NiCrMo3	ER NiCrMo3	S Ni 6625
3	Royal ER Ni1	ER Ni1	S Ni 2061
4	Royal ER NiCu7	ER Ni Cu7	S Ni 4060
ISO 24373			
1	Royal Cupro Nickel 70-30	ER Cu Ni	S Cu 7158
2	Royal Cupro Nickel 90-10	ER Cu Ni	S Cu 7061
3	Royal ER Cu	ER Cu	S Cu 1898
ISO 17632 A			
1	ROYAL FIL GS 11 R	E70T-1C	T 42 2 R C 3 H5
2	ROYAL FIL OA 70T-4	E70T-4	T 42 Z R C 3 H5
3	ROYAL FIL GS 31 RB	E70T-5C	T 42 3 B C 3 H5
4	ROYAL FIL GS 12 R	E71T-1C	T 42 2 R C 1 H5
5	ROYAL FIL GS 12 H4R	E71T-1CH4	T 42 2 R C 1 H5
6	ROYALFIL GS 12 R MOD-M (BW)	E71T-1M	T 42 2 R M 1 H5
7	ROYAL FIL GS 15 RB	E71T-5C	T 42 3 B C 1 H5
8	ROYAL FIL GS T9R	E71T-9C	T 42 3 R C 1 H5
9	ROYAL FIL DUAL T9R	E71T-9C/E71T-9M	T 38 3 R C 1 H5 / T 38 3 R M 1 H5
10	ROYAL FIL GS T12R	E71T-12C	T 38 3 R C 1 H5
11	ROYALFIL GS T9R MOD-M BW	E71T-12MJ	T 38 4R M 1 H5
12	ROYAL FIL GS 15B-A1	E71T5-A1C	T 38 3 Mo B C 1 H5
13	ROYAL FIL GF 16 R	E81T1-NI1C	T 46 3 1 NI R C 1 H5
14	ROYAL FIL GS 17 R	E81T1-NI2C	T 46 4 2 NI R C 1 H5
15	ROYAL FIL GS 36 B	E80T5-K1C	T 46 4 1 NiMo B C 3 H5
16	ROYAL FIL GS 36 R	E80T1-K2C	T 46 31.5 Ni R C 3 H5
17	ROYAL FIL GS 38 R	E81T1-K2C	T 46 31.5 Ni R C 1 H5
18	ROYAL FIL GS 18 R	E81T1-W2C	T 46 31 Ni R C 1 H5
19	ROYAL FIL GS 81 B	E81T1-GC	T 46 2 Mn1Ni R C 1 H5
20	ROYAL FIL GS 703C	E70C-3MH4	T 38 2 M M 3 H5
21	ROYAL FIL GS 706C	E70C-6M	T 38 3 M M 3 H5
22	ROYAL FIL GS 80M	E80C-GM	T 46 0 M M 3 H5
23	ROYAL FIL GS 12R (BW)	E 71T-1C	T 42 2 R C 1 H5
24	ROYAL FIL GS 12R MOD (BW)	E 71T-1C	T 42 2 R C 1 H5
25	ROYAL FIL GS 12R MOD	E 71T-1C	T 42 2 R C 1 H5
26	ROYAL FIL GS 12R LM	E 71T-1C	T 42 2 R C 1 H5



Attestation & Certification

Manager:

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List of products:

ISO 17634 A			
1	ROYALFIL GS 81RA1(BW)	E81T1-A1C	T (Mo) R C 1 H5
2	ROYAL FIL GS 81 RM	E81T1-B1C	T ZR C 1 H5
3	ROYAL FIL GS 81 R	E81T1-B2C	T CrMo1 L R C 1 H5
4	ROYAL FIL GS 80 RB	E80T5-B2C	T CrMo1 B C 3 H5
5	ROYAL FIL GS 81 RB	E81T5-B2C	T CrMo1 B C 1 H5
6	ROYAL FIL GS 80B6	E80T1-B6C	T CrMo5 R C 3 H5
7	ROYAL FIL GS 81B6	E81T1-B6C	T CrMo5 R C 1 H5
8	ROYAL FIL GS 41B3	E90T5-B3C	T CrMo2 B C 3 H5
9	ROYAL FIL GS 41 R	E91T1-B3C	T CrMo2 R C 1 H5
10	ROYAL FIL GS 91B9	E91T1-B9C	T ZR C 1 H5
11	ROYALFIL GS 81 B8	E 81T1-B8C	T Z R C 1 H5
ISO 18276 A			
1	ROYAL FIL GS 19 R	E91T1-NI2C	T 55 4 2 NiMo R C 1 H5
2	ROYAL FIL GS 91 D	E91T1-D1C	T 55 4 MnMo RC1H5
3	ROYAL FIL GS 90 D2	E90T5-D2C	T 55 5 MnMo B C 3 H5
4	ROYAL FIL GS 41B	E90T5-K2C	T 55 5Mn1.5Ni B C 3 H5
5	ROYAL FIL GS 91 R	E91T1-GC	T 55 31NiMo R C 1H5
6	ROYAL FIL GS 100 D2	E100T5-D2C	T 62 4MnMo B C 3 H5
7	ROYAL FIL GS 43 R	E110T1-K4C	T 692 Mn2NiCrMo R C 3 H5
8	ROYAL FIL GS 42 B	E110T5-K4C	T 69 5Mn2NiCrMo B C 3 H5
9	ROYAL FIL GS 46 R	E111T1-GC	T 69 4 Mn2NiMo R C 1 H5
10	ROYAL FIL GS 45R	E121T1-GC	T 79 3 Mn2NiMo R C 1 H5
11	ROYAL FIL GS 42R	E111T1-K4C	T 69 2 Mn2NiCrMo R C 1 H5
12	ROYAL FIL GS 47R	E101T1-K3C	T 62 2Mn2NiMo R C 1 H5
13	ROYAL FIL GS 48R	E111T1-K3C	T 69 2 Mn2NiMo R C 1 H5
ISO 17633 A			
1	ROYAL FIL GS 307	E307T1-1	T 18 9 MnMo R C 1
2	ROYAL FIL GS 1 CH	E308HT1-1	T 19 9 Nb R C 1
3	ROYAL FIL GS 1 C	E308LT1-1	T 19 9 L R C 1
4	ROYAL FL GS D2H	E309HT1-1	T Z R C 1
5	ROYAL FIL GS D2	E309LT1-1	T 23 12 L R C 1
6	ROYAL FIL GS D2 MOL	E309LMOT1-1	T 23 12 2L R C 1
7	ROYAL FIL GS 106	E312T1-1	T 29 9 R C 1
8	ROYAL FIL GS 2 CH	E316HT1-1	T 19 12 3 Nb R C 1
9	ROYAL FIL GS 2C	E316LT1-1	T 19 12 3 L R C 1
10	ROYAL FILL GS 1 B	E347T1-1	T 19 9 Nb R C 1
11	ROYAL FIL GS 413	E410T0-1	T 13 R C 3
12	ROYAL FIL GS 413NIMO	E410NIMOT0-1/4	T 13 4 R M 21 3
13	ROYAL FIL GS 209	E2209T1-1	T 22 9 3 N L R C 1
14	ROYAL FIL GS 2553	E2553T1-1	T 25 9 4 Cu N L R C 1
15	ROYAL FIL GS 2594	E2594T1-1	T 25 9 4 Cu N L R C 1
16	ROYAL FIL GS 409Ti	EC409	T 13 Ti R M 133
ISO 636 A			
1	ROYAL TIG T2	ER 70S2	W 46 3 2Ti



Manager:

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