



ARRCOVIA

Precision built. Industry proven.

AWS-CERTIFIED WELDING CONSUMABLES · GEORGETOWN, TEXAS

Welding Electrodes

Low and medium tensile steel

GRADE	AWS CODE
ARRC FS12	E 6012
ARRC SUPER	E 6013
ARRC SUPER S	E 6013
ARRC 6013	E 6013
ARRC 6013X	E 6013
ARRC 6013XX	E 6013
ARRC 6022	E 6022
ARRC 7014	E 7014
ARRC 7015	E 7015
ARRC 7016	E 7016
ARRC 7016W	E 7016
ARRC 7018	E 7018
ARRC 7018 AC	E 7018
ARRC 7018 H4R	E 7018-H4R
ARRC 7024	E 7024
ARRC 7028	E 7028

Low alloy for low temperature service

GRADE	AWS CODE
ARRC 7015 A1	E 7015 A1
ARRC 7015 SPL	E 7015-1
ARRC 7016M	E 7016-A1
ARRC 7018 SPL	E 7018-1
ARRC 7018 SPL H4R	E 7018-1 H4R
ARRC 7018M	E 7018 A1
ARRC 7018Ni	E 7018 G
ARRC 8016 Ni SPL	E 8016 G
ARRC 8018 Ni SPL	E 8018 G
ARRC 8016 C1	E 8016 C1
ARRC 8018 C1	E 8018 C1
ARRC 8018 C1 H4R	E 8018 C1 H4R
ARRC 8016 C2	E 8016 C2
ARRC 8018 C2	E 8018 C2
ARRC 8018 C2 H4R	E 8018 C2 H4R
ARRC 8016 C3	E 8016 C3
ARRC 8018 C3	E 8018 C3
ARRC 8018 C3 H4R	E 8018 C3 H4R

Pipe welding

GRADE	AWS CODE
ARRC 6010	E 6010
ARRC 6011	E 6011
ARRC 7010 G	E 7010 G
ARRC 7010 P1	E 7010 P1
ARRC 8010 G	E 8010 G
ARRC 8010 P1	E 8010 P1
ARRC 8018 P2	E 8018 P2
ARRC LH-80 H4R	E 8045 P2
ARRC LH-90 H4R	E 9045 P2

Creep resistant steel

GRADE	AWS CODE
ARRC CR-1 / H4R	E 8018-B2 / H4R
ARRC CR 2 / H4R	E 9018-B3 / H4R
ARRC CR 5 / H4R	E 8018-B6 / H4R
ARRC CR 9 / H4R	E 8018-B8 / H4R
ARRC CR 9 SPL / H4R	E 9018-B91 / H4R
ARRC CR 9 SPLPLUS	E 9015-B91
ARRC CR-9 SPL++	E 9016 B91

High tensile, quenched & tempered

GRADE	AWS CODE
ARRC HT	E 9018 G
ARRC HT 60	E 9016 G
ARRC HT 65 SPL	E 9018 M
ARRC HT 65 SPL H4R	E 9018 M H4R
ARRC HT 65 D1	E 9018 D1
ARRC HT 70	E 10018 M
ARRC HT 75	E 10016 G
ARRC HT 75G	E 10018 G
ARRC HT 75 D2	E 10018 D2
ARRC HT SPL	E 11018 M
ARRC HT 80	E 12018 M
ARRC HT 80G	E 12018 M
ARRC HT 4130	-

Stainless steel

GRADE	AWS CODE
ARRC 308	E 308-16
ARRC 308L	E 308L-16
ARRC 308LMo	E 308LMo-16
ARRC 308H	E 308H-16
ARRC 16.8.2	E 16-8-2-15
ARRC 309	E 309-16
ARRC 309L	E 309L-16
ARRC 309Cb	E 309Nb-16
ARRC 309Mo	E 309Mo-16
ARRC 309LMo	E 309LMo-17
ARRC 310	E 310-16
ARRC 310H	E 310H-16
ARRC 310Mo	E 310Mo-16
ARRC 316	E 316-16
ARRC 316L	E 316L-16
ARRC 316LF	E 316L-16 (Nr.)
ARRC 36CB	E 318-16
ARRC 317L	E 317L-16
ARRC 347	E 347-16
ARRC 13 CR	E 410-15
ARRC 17 CR	E 430-15
ARRC 17M	E 430Mo-16 (Nr.)
ARRC 18/8/5	E 307-16 (Nr.)
ARRC 13/4/0.5	E 410NiMo-15
ARRC 312	E 312-16

Welding Electrodes

Special alloys

GRADE	AWS CODE
ARRC 330	E 330-16
ARRC 330H	E 330H-15 Ntr.
ARRC 630	E 630-16
ARRC 2093L	E 2209-16
ARRC 25/20 SPL	E 310-16 (Ntr.)
ARRC 383	E 383-16
ARRC 20/25/5Cu	E 385-16
ARRC 2553	E 2553-16
ARRC 2593	E 2593-16
ARRC 2594	E 2594-16
ARRC 2595	E 2595-16
ARRC 320	E 320-16
ARRC SMO-254	—

Nickel and nickel-based alloys

GRADE	AWS CODE
ARRC B Ni 65	E NiCrFe-2
ARRC B Ni 70	E NiCrFe-3
ARRC B Ni 80	E NiCrMo-3
ARRC B Ni 84	E NiCrMo-4
ARRC B Ni 85	E NiCrMo-5
ARRC B Ni 90	E NiCrMo-6
ARRC B Ni 810	E NiCrMo-10
ARRC B Ni 813	E NiCrMo-13
ARRC B Ni 814	E NiCrMo-14
ARRC NiCu 7	E NiCu-7
Incoloy 825	—

Hardfacing

GRADE	HARDNESS
ARRC HF-1	250–350 BHN
ARRC HF-2	350–450 BHN
ARRC HF-3	550–650 BHN
ARRC HF-5	550–650 BHN
ARRC HF II LH	350–400 BHN
ARRC HF LH	54–62 HRC
ARRC HF MN	500 BHN (WH)
ARRC HF 550R	550–650 BHN
ARRC HF MN SPL	450 BHN (WH)
ARRC HF 15 CM	380–480 BHN (WH)

Cast iron and bronze

GRADE	AWS CODE
CAST STEEL	Est.
CAST FN	E NiFe-CI
CAST Ni	E Ni-CI
CAST MONEL	E NiCu-B
CAST BRONZE	E CuSn-C
CAST BRONZE AC/DC	E CuSn-C
ARRC CuNiAl	E CuNiAl

Cutting and gouging

GRADE	AWS CODE
CUTROD / SPL	—
GOUGE ROD	—

Low heat input & special alloys

GRADE	GRADE
R-101	R-680 Blue
R-106	R-680 CGS
R-107	R-444L
R-108	R-195M
R-109	R-250R
R-188S	R-350B
R-192S	R-650B
R-252	R-14Mn
R-14Mn Spl	R-50NM
R-CCR 70	R-55N
R-CCR 80	R-99N
R-CCR100	R-122
R-CCR 100 SPL	R-CM55
R-HARDALLOY	R-901
R-ALLOY550	R-902
R-3000D	R-NIMOTEN HFD

Welding Wires & Fluxes

Copper coated carbon & low alloy (TIG / MIG)

GRADE	AWS CODE
ARRCMIG-1 / ARRCTIG-1	ER 70S-6
ARRCMIG-S2 / ARRCTIG-S2	ER 70S-2
ARRCMIG-S3	ER 70S-3
ARRCMIG 80G	ER 80S-G
ARRCMIG 90G	ER 90S-G
ARRCMIG ER 80S-D2	ER 80S-D2
ARRC ER 80S-B2 / B6	ER 80S-B2 / B6
ARRC ER 90S-B3	ER 90S-B3
ARRC ER 80S-B8 / B9	ER 80S-B8 / B91
ARRC ER 80S-Ni1 / Ni2	ER 80S-Ni1 / Ni2

Stainless steel (TIG / MIG / SAW)

GRADE	AWS CODE
ARRC ER 307 / 307Si	ER 307 / 307Si (Nr.)
ARRC ER 308L / 308LSi	ER 308L / 308LSi
ARRC ER 308H	ER 308H
ARRC ER 309L / 309LSi	ER 309L / 309LSi
ARRC ER 309Mo / 309LMo	ER 309Mo / 309LMo
ARRC ER 310	ER 310
ARRC ER 312	ER 312
ARRC ER 316L / 316LSi	ER 316L / 316LSi
ARRC ER 317 / 317L	ER 317 / 317L
ARRC ER 318	ER 318
ARRC ER 320 / 320LR	ER 320 / 320LR
ARRC ER 347 / 347Si	ER 347 / 347Si
ARRC ER 383	ER 383
ARRC ER 385	ER 385
ARRC ER 409 / 109Nb	ER 409
ARRC ER 410 / 410NiMo	ER 410 / 410NiMo
ARRC ER 430 / 430LNb	ER 430
ARRC ER 16-8-2	ER 16-8-2
ARRC ER 2209	ER 2209
ARRC ER 2553	ER 2553
ARRC ER 2594	ER 2594

Nickel & nickel alloy bare wire

GRADE	AWS CODE
ARRC Inconel 625	ER NiCrMo-3
ARRC Incoloy 825	ER NiFeCr-1
ARRC Alloy 82	ER NiCr-3
ARRC ER C276	ER NiCrMo-4
ARRC ER Ni1	ER Ni-1
ARRC ER NiCu7	ER NiCu-7
ARRC ER NiFe-Ci / Ni Ci	—

Oxyfuel gas welding rod (TIG)

GRADE	AWS CODE
R-45	R45
R-60	R60

Flux-cored arc MIG / MAG wire

GRADE	AWS CODE
ARRCORED 70	E 70T-1C
ARRCORED 71	E 71T-1C / 1M
ARRCORED 71G	E 71T-GS
ARRCORED 715	E 71T-5C / 5M
ARRCORED 81W	E 81T1-W2
ARRCORED 81-B2	E 81T1-B2
ARRCORED 91-B3	E 91T1-B3
ARRCORED 81-B6	E 81T1-B6C
ARRCORED 81K2	E 81T1-K2
ARRCORED 81Ni1	E 81T1-Ni1
ARRCORED 81Ni2	E 81T1-Ni2
ARRCORED 81-A1	E 81T1-A1
ARRCORED 85G	E 80T5-G
ARRCORED 9J	E 71-1C/M-J
ARRCORED 308L	E 308L-T1-1C
ARRCORED 309L	E 309L-T1-1C
ARRCORED 316L	E 316L-T1-1C

Submerged arc wire

GRADE	AWS CODE
ARRCSAW-1	EL8
ARRCSAW-2	EM12K
ARRCSAW-3	EH14
ARRCSAW-12	EL12
ARRCSAW-A1	EA1
ARRCSAW-A2	EA2
ARRCSAW-10K	EH10K

Submerged arc flux

GRADE	AWS CODE
ARRCMELT-1	F7A0-EL8
ARRCMELT-2	F7A2-EM12K
ARRCMELT-3	F7A2-EH14
ARRCMELT-4	F7A4-EM12K
ARRCMELT-B62	F7A4-EM12K
ARRCMELT-B63	F7A5-EM12K
ARRCMELT-61 (high speed)	F7A0-EM12K
ARRCMELT-81 (high speed)	F7A0-EM12K
ARRCMELT-SPL	F7A2-EA2
ARRCMELT-SS	All SS ER grades

Aluminium (TIG / MIG)

GRADE	AWS CODE
ARRC ER 4043	ER 4043
ARRC ER 5356	ER 5356

Copper & copper alloy bare wire

GRADE	AWS CODE
ARRC BRONZE-A	ER CuSn-A
ARRC BRONZE-C	ER CuSn-C
ARRC ER CuSi-A	ER CuSi-A
ARRC ER CuNiAl	ER CuNiAl

Packaging & Specifications

Mild steel electrodes
5 kg / 11.023 lb x 4 packets, corrugated pack
= 20 kg / 44 lb master box

Stainless & special type electrodes
2 kg / 4.4 lb x 5 plastic packets = 10 kg / 22 lb master box
5 kg / 11.023 lb x 4 plastic packets = 20 kg master box

TIG cut lengths
5 kg x 4 plastic tubes of 1000 mm or 36" length
= 20 kg master box

MIG, FCAW & SAW wire
5 / 12.5 / 15 kg spools (33 lb or 44 lb)
SAW: 25 kg ring pack, 60 lb precision layer winding
Drum pack 100–250 kg · SAW drum 250–500 kg

ELECTRODE SIZES	2.00	2.40 / 2.50	3.15 / 3.20	4.00	5.00
Millimetres	2.00	2.40 / 2.50	3.15 / 3.20	4.00	5.00
Inches	5/64"	3/32"	1/8"	5/32"	3/16"

WIRE DIAMETERS	TIG	MIG	SAW	FCAW
Smallest	1.20 mm · 3/64"	0.60 mm · 0.023"	1.60 mm · 1/16"	1.20 mm · 0.047"
	1.60 mm · 1/16"	0.80 mm · 0.030"	2.00 mm · 5/64"	1.40 mm · 0.055"
	2.00 mm · 5/64"	0.90 mm · 0.035"	2.40 mm · 3/32"	1.60 mm · 0.062"
	2.40 mm · 3/32"	1.00 mm · 0.040"	3.20 mm · 1/8"	
	3.20 mm · 1/8"	1.20 mm · 0.047"	4.00 mm · 5/32"	
Largest	4.00 mm · 5/32"	1.60 mm · 0.062"	4.80 mm · 3/16"	

Lengths. Electrodes available in 350 mm (14") and 450 mm (18"). 1.60 mm size available on request.

Alternative packing. Vacuum pack · tin and can pack · packing in pieces. Customised packing available on request.

Certification. Every heat and lot supplied with a certified mill test report.



ARRCOVIA

Precision built. Industry proven.

ARRCOVIA LLC

Direct importer of AWS-certified welding consumables
Georgetown, Texas

Jakul Shastri

+1 (512) 808-6724

jakulshastri@arccovia.com

arccovia.com

MILL-DIRECT · CMTR ON EVERY HEAT · SHIPPED NATIONWIDE