

## *We Make Together... Welding Consumables*



For the past 15 years, **Raajratna Electrodes** is devoted to the development of quality welding consumables. It is an ISO 9001:2008 certified company and leading Government recognized "Export House" and a part of "Raajratna Group", involved in Stainless Steel Wires, Bright Bars, Stainless Steel Fasteners, Round & Square Tubes, Threaded Bars & Wire Nails having their state-of-the-art manufacturing units on Ahmedabad - Mehsana Highway, Gujarat - India.

Raajratna has grown as truly global player in the welding consumable industry. Today our products are seen in 50 countries around the world.

Raajratna Electrodes offers complete range of Welding Consumables viz.

- **MANUAL METAL ARC WELDING ELECTRODE (MMAW)**
- **COPPER COATED WELDING WIRE (TIG / MIG / SAW)**
- **STAINLESS STEEL WELDING WIRE (TIG / MIG / SAW)**
- **SUBMERGED ARC WELDING WIRE & FLUX**
- **FLUX CORED ARC WELDING WIRE (FCAW)**

Welding Consumables manufactured by the company are meeting international quality standards i.e. AWS, DIN, BS, JIS etc. We adopt latest and innovative technology and our products are approved by International and National agencies like ABS, BV, DNV, D&B, LR, PDIL, RDSO, BHEL, ESSAR, BIS, IRS, IBR, BAX COUNSEL, THERMAX, NPC, TOYO etc.

Our production team is highly skilled and we always aim to give zero defect products to our customers. Our quality assurance and R&D team always believes in continuous improvement in our products keeping in view customer's requirement.



**Raajratna**  
*electrodes pvt. ltd.*

*An ISO 9001:2008 Company and Government Recognized Export House*

# Welding Consumables

## Stick Welding Electrode

Raajratna Grade	AWS Code	Raajratna Grade	AWS Code
<b>Low &amp; Medium Tensile Steel Electrode</b>			
RATNA 6010	E 6010	RATNA 7014	E 7014
RATNA 6011	E 6011	RATNA 7016	E 7016
RATNA FS 12	E 6012	RATNA 7016W	E 7016
RATNA 6013	E 6013	RATNA 7018	E 7018
RATNA 6013X	E 6013	RATNA 7018H4R	E 7018H4R
RATNA 6013XX	E 6013	RATNA 7024	E 7024

<b>Low Alloy Electrode for Low Temperature Service</b>			
RATNA 7018 SPL	E 7018-1	RATNA 8018 (Ni) SPL	E 8018G
RATNA 7018 M	E 7018A1	RATNA 8018 C1	E 8018 C1
RATNA 7018 Ni	E 7018G	RATNA 8018 C2	E 8018 C2
RATNA 8016 (Ni) SPL	E 8016G		

<b>Electrode for High Tensile &amp; Quenched &amp; Tempered Steel</b>			
RATNA HT	E 9018G	RATNA HT 75	E 10016G
RATNA HT 65 SPL	E 9018M	RATNA HT SPL	E 11018M
RATNA HT 65 D1	E 9018D1		

<b>Electrode for Creep Resistant Steel</b>			
RATNA CR 1	E 8018 B2	RATNA CR 9	E 8018 B8
RATNA CR 2	E 9018 B3	RATNA CR 9 SPL	E 9018 B9
RATNA CR 5	E 8018 B6		

<b>Hard Facing Electrode</b>			
Raajratna Grade	Hardness	Raajratna Grade	Hardness
RATNA HF 1	240-280 BHN	RATNA HF II LH	350-400 BHN
RATNA HF 2	360-410 BHN	RATNA HF 5	54-60 HRC
RATNA HF 3	54-60 HRC	RATNA HF MN	500-540 BHN (WH)
RATNA HF LH	54-62 HRC		

Raajratna Grade	AWS Code	Raajratna Grade	AWS Code
<b>Stainless Steel Electrode</b>			
RATNA 308	E 308-16	RATNA 347	E 347-16
RATNA 308L	E 308L-16	RATNA 13 CR	E 410-15
RATNA 308H	E 308H-16	RATNA 17CR	E 430-15
RATNA 309	E 309-16	RATNA 18/8/5	E 307-16 (Nr.)
RATNA 309L	E 309L-16	RATNA 13/4/0.5	E 410NiMo-15
RATNA 309Cb	E 309Cb-16	RATNA 312	E 312-16
RATNA 309Mo	E 309Mo-16	RATNA 630	E 630-16
RATNA 310	E 310-16	RATNA 2093L	E 2209-16
RATNA 316	E 316-16	RATNA 25/20 Spl	E 310-16 (Nr.)
RATNA 316L	E 316L-16	RATNA 20/25/5 Cu	E 385-16
RATNA 316LF	E 316L-16 (Nr.)	RATNA 2594	E 2594-16
RATNA 36Cb	E 318-16	RATNA 2595	E 2595-16
RATNA 317L	E 317L-16	RATNA 320	E 320-16
RATNA 330	E 330-16		

<b>Cast Iron Electrode</b>			
CAST STEEL	ESt	CAST MONEL	ENi CuB
CAST FN	ENi Fe CI	CAST BRONZE	E CuSn-C
CAST Ni	ENi CI		

<b>Cutting &amp; Gouging Electrode</b>			
CUT ROD	---	GOUGE ROD	---
<b>Ni &amp; Nickel Based Alloys</b>			
RATNA BNi 65	ENi Cr Fe 2	RATNA BNi 80	ENi Cr Mo-3
RATNA BNi 70	ENi Cr Fe 3	RATNA Ni Cu	ENi Cu 7

## Stainless Steel Welding Wire : (TIG/MIG/SAW)

Raajratna Grade	Standard
RAAJ ER 307Si	AWS : A 5.9 ER 307Si (Nr.)
RAAJ ER 308H	AWS : A 5.9 ER 308H
RAAJ ER 308L	AWS : A 5.9 ER 308L
RAAJ ER 316L	AWS : A 5.9 ER 316L
RAAJ ER 309L	AWS : A 5.9 ER 309L
RAAJ ER 310	AWS : A 5.9 ER 310
RAAJ ER 312	AWS : A 5.9 ER 312
RAAJ ER 347	AWS : A 5.9 ER 347
RAAJ ER 410NiMo	AWS : A 5.9 ER 410NiMo
RAAJ ER 430	AWS : A 5.9 ER 430

## Copper Coated TIG & MIG Welding Wire

Raajratna Grade	Standard
RAAJ MIG-1	AWS : A 5.18 ER 70 S 6
RAAJ MIG-S1	AWS : A 5.18 ER 70 S G
RAAJ MIG-S2	AWS : A 5.18 ER 70 S 2
RAAJ MIG-S3	AWS : A 5.18 ER 70 S 3
RAAJ MIG-80G	AWS : A 5.28 ER 80 S G
RAAJ MIG-90G	AWS : A 5.28 ER 90 S G
RAAJ MIGER80SD2	AWS : A 5.28 ER 80 D 2

- Above range is also available in RAAJTIG for TIG Welding Process.
- Customised products, Low heat input and special welding alloys are also available as per user specific requirements.

## Flux Cored Arc Welding Wire

Raajratna Grade	Standard
RAAJCORED 70	AWS : A 5.20 E 70 T-1
RAAJCORED 71	AWS : A 5.20 E 71 T-1
RAAJCORED 71 (Spl)	AWS : A 5.20 E 71 T-5
RAAJCORED 81	AWS : A 5.29 E 81 T-1 - Ni1/Ni 1M
RAAJCORED 81 W	AWS : A 5.29 E 81 T-1W2
RAAJCORED 81 B2	AWS : A 5.29 E 81 T-1-B2
RAAJCORED 91 B3	AWS : A 5.29 E 91 T-1-B3

## Copper Coated SAW Wire

Raajratna Grade	Standard
RAAJ SAW-1	AWS : A 5.17 EL 8
RAAJ SAW-2	AWS : A 5.17 EM 12 K
RAAJ SAW-3	AWS : A 5.17 EH 14
RAAJ SAW-A2	AWS : A 5.23 EA2

## Agglomerated SAW Flux

Raajratna Grade	Standard
RAAJMELT-1	AWS : F7A0 EL8
RAAJMELT-2	AWS : A 5.17 F7 A2-EM12K
RAAJMELT-3	AWS : A 5.17 F7 A2-EH14
RAAJMELT-4	AWS : A 5.17 F7A5-EM12K
RAAJMELT-SPL	AWS : A 5.23 F7 A2-EA2
RAAJMELT-SS	EN760 : SA FB 155 AC H5
RAAJMELT-6	AWS : A 5.17 F7A2-EM12K



## Raajratna Electrodes Pvt. Ltd.

An ISO 9001:2008 Company and Government Recognized Export House  
 Manufacturer-Exporter of Welding Consumables

Regd. Office : 11, Sona Roopa, Opp. Lal Bunglow, C. G. Road, Navrangpura, Ahmedabad-380 006. Gujarat (India)  
 Phone : +91-79-2644 5258, 2656 1321, 2643 1543 Fax : +91-79-2656 8085, 2754 3085

e-mail : (For Domestic) sales@raajratnaelectrodes.com / (For International) exports@raajratnaelectrodes.com

For more details please visit us on [www.raajratnaelectrodes.com](http://www.raajratnaelectrodes.com)

CIN : U29308GJ1991PTC016444