

RATANAKAR
WIRE PVT. LTD.

Engineering The Wire That Powers Industry



DELIVERED ON TIME. TRUSTED WORLDWIDE.

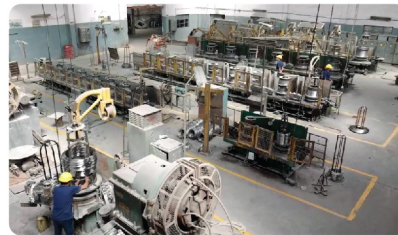
Ratanakar Wire Private Limited (RWPL) is more than a manufacturer we are a long-term industrial partner that businesses across India and around the world have relied on for over three decades. Our reputation rests not just on the quality of wire we produce, but on the personal commitment we bring to every client relationship. We understand that no two industrial requirements are identical, and so every order receives individual attention from specification to dispatch ensuring the right grade, dimension and finish, every time.

Our on-time delivery record across domestic and international markets is a commitment we have upheld without exception, serving industries as demanding as medical, oil & gas, automotive, and precision engineering. That consistency over 30+ years is what makes RWPL a trusted name in Indian manufacturing and a growing presence in global supply chains.

INFRASTRUCTURE

Built to Produce. Designed to Perform.

RWPL operates from a 250,000 sq. ft. state of the art manufacturing facility at Pithampur, Madhya Pradesh, one of India's premier industrial corridors, strategically connected to major highways and ports. The plant houses advanced multi-pass wire drawing lines, controlled atmosphere annealing furnaces, and precision straightening and cutting equipment, enabling us to manufacture wire products with consistent tensile strength, dimensional accuracy, and surface integrity across every production run. Our location and logistics infrastructure allow us to fulfill bulk orders and just-in-time requirements with equal efficiency.



QUALITY ASSURANCE

Every Meter. Every Time.

Quality at RWPL is not a department, it is a discipline that runs through every stage of production. As a BIS and ISO 9001:2015 certified manufacturer, we operate under a Total Quality Management (TQM) framework with strict in-process and final inspection protocols. Regular internal and third-party audits ensure our processes remain aligned with Indian Standards (IS) and international benchmarks.

IN-HOUSE LAB FACILITIES

Tested Here. Trusted Everywhere.

Our fully equipped in-house laboratory is the backbone of our quality promise. Fitted with modern testing instruments including universal tensile testing machines, hardness testers, optical comparators and surface finish analyzers, our lab enables real-time quality verification at every stage of the production cycle.



PRODUCT RANGE



Stainless Steel Wires

- Size Range** 0.8 mm to 12.00 mm
- Grades** AISI 200, 300 & 400 series or equivalent other international grades
- Tolerance** h9 or as per customer requirement.
- Surface Finish** Soft Annealed, ¼ Hard, ½ Hard Full Hard (Matte / Soap Coated or Bright Finish)

Dimensional Tolerances

RATANAKAR supplies Stainless Steel Wires as per the tolerance given below

Standard Tolerance on wire diameters

Diameter	Tolerance
0.8 mm (0.0197") to < 1.25 mm (0.0492")	+/- 0.012 mm (0.0005")
1.25 mm (0.0492") to < 2.00 mm (0.0787")	+/- 0.015 mm (0.0006")
2.00 mm (0.0787") to < 3.25 mm (0.1280")	+/- 0.020 mm (0.0008")
3.25 mm (0.1280") to < 4.75 mm (0.1870")	+/- 0.025 mm (0.0010")
4.75 mm (0.1870") to ≤12.00 mm (0.590")	+/- 0.040 mm (0.0015")

Bright Bars



(4 mm to 12 mm)

Stainless Steel Wire Grades – Manufacturer Guide

STAINLESS STEEL – CHEMICAL COMPOSITION (FULL DATA)

Grade	C Max %	Mn Max %	P Max %	S Max %	Si Max %	Cr %	Ni %	Cu %	Mo Max %	N Max %	Ti %	Others
201 (3% Ni)	0.15	7.00–9.00	0.1	0.03	1	14.0–17.0	3.00–4.00	1.50–2.50	–	0.3	–	–
201	0.15	7.00–9.00	0.1	0.03	1	14.0–17.0	0.30–0.70	1.5	–	0.3	–	–
AISI 201	0.15	5.50–7.50	0.06	0.03	0.75	16.0–18.0	3.50–5.50	–	–	0.25	–	–
AISI 202	0.15	7.50–10.00	0.06	0.03	1	17.0–19.0	4.00–6.00	–	–	0.25	–	–
204 Cu	0.08	6.50–8.50	0.06	0.03	2	16.0–17.0	1.50–3.00	2.00–3.00	–	0.3	–	–
301	0.12	2	0.045	0.03	1	16.0–18.0	6.0–8.0	–	–	–	–	–
302	0.12	2	0.045	0.03	1	17.0–19.0	8.0–10.0	–	–	–	–	–
302HQ	0.03	2	0.045	0.03	1	17.0–19.0	9.0–11.0	3.0–4.0	–	–	–	–
303	0.08	2	0.045	0.15–0.35	1	17.0–19.0	8.0–10.0	–	–	–	–	–
304	0.08	2	0.045	0.03	1	18.0–20.0	8.0–10.0	–	–	–	–	–
304HC	0.08	2	0.045	0.03	1	18.0–20.0	8.0–10.0	–	2.0–3.0	–	–	–
304L (10%Ni)	0.03	2	0.045	0.03	1	18.0–20.0	10.0–12.0	–	–	–	–	–
304L	0.03	2	0.045	0.03	1	17.5–19.5	8.0–10.5	–	–	–	–	–
305	0.06	2	0.045	0.03	1	17.0–19.0	11.0–13.0	–	–	–	–	–
AISI 309	0.02	2	0.045	0.015	1.50–2.50	19.0–21.0	11.0–13.0	–	–	–	–	–
310S	0.08	2	0.045	0.03	1.5	24.0–26.0	19.0–22.0	–	–	–	–	Ce 0.030–0.080
314	0.25	2	0.045	0.03	1.50–3.00	23.0–26.0	19.0–22.0	–	–	–	–	–
316	0.08	2	0.04	0.03	1	16.0–18.0	10.0–14.0	–	2.00–3.00	–	–	–
316 (2.50 Mo)	0.05	2	0.045	0.03	1	16.5–18.5	10.5–13.0	–	2.50–3.00	–	–	–
316L	0.03	2	0.045	0.03	1	16.0–18.0	10.0–14.0	–	2.00–3.00	–	–	–
316Ti	0.08	2	0.045	0.03	1	16.0–18.0	10.0–12.0	–	2.00–3.00	–	–	Ti = 5×C
630 (17–4PH)	0.07	1	0.04	0.03	1	15.0–17.5	3.0–5.0	3.0–5.0	–	–	–	Nb+Ta 0.15–0.45
631 (17–7PH)	0.09	1	0.04	0.03	1	16.0–18.0	6.5–7.8	–	–	–	–	Al 0.75–1.50
ER317L	0.03	1.00–2.50	0.03	0.03	0.30–0.65	18.0–20.5	11.0–14.0	0.75	2.00–3.00	–	–	Nb 8×C
321	0.08	2	0.045	0.03	1	17.0–19.0	9.0–13.0	–	–	–	–	Ti ≥5×C
321H	0.04–0.08	2	0.045	0.03	1	17.0–19.0	9.0–13.0	–	–	–	–	Ti ≥5×C
347H	0.04–0.08	2	0.045	0.03	1	17.0–19.0	9.0–13.0	–	–	–	–	Nb ≥10×C
ER347	0.08	2.5	0.03	0.03	0.30–0.65	19.0–21.5	9.0–11.0	0.75	–	–	–	Nb ≥10×C
ER307Si	0.12	6.00–7.50	0.03	0.02	0.65–0.95	17.2–19.8	8.0–9.4	–	–	0.3	–	–
ER308	0.04–0.08	2	0.02	0.02	0.30–0.65	19.0–21.0	9.5–11.0	–	–	–	–	–
ER308L	0.03	1.00–2.50	0.03	0.03	0.30–0.65	19.5–22.0	9.0–11.0	–	–	–	–	–
ER308LSi (Low%Si)	0.03	1.00–2.50	0.03	0.03	0.65–1.00	19.5–22.0	9.0–11.0	–	–	–	–	–
ER309	0.12	1.00–2.50	0.03	0.03	0.30–0.65	23.0–25.0	12.0–14.0	–	–	–	–	–
ER309L	0.03	1.00–2.50	0.03	0.03	0.30–0.65	23.0–25.0	12.0–14.0	–	–	–	–	–
ER309LSi	0.03	1.00–2.50	0.03	0.03	0.65–1.00	23.0–25.0	12.0–14.0	–	–	–	–	–
ER310	0.08–0.15	1.50–2.00	0.03	0.025	0.30–0.65	25.0–28.0	20.0–22.0	–	–	–	–	–
ER312	0.15	2	0.025	0.025	0.30–0.65	29.0–32.0	8.0–10.0	–	–	–	–	–
ER316L	0.03	1.00–2.50	0.03	0.03	0.30–0.65	18.0–20.0	11.0–14.0	–	2.20–2.75	–	–	–
ER316LSi	0.03	1.00–2.50	0.03	0.03	0.65–1.00	18.0–20.0	11.0–14.0	–	2.00–3.00	–	–	–
ER630	0.05	0.25–0.75	0.03	0.03	0.75	16.0–16.75	4.5–5.0	3.25–4.00	–	–	–	Nb+Ta 0.15–0.30

Stainless Steel Wire Grades – Manufacturer Guide

STAINLESS STEEL

Grade	C Max %	Mn Max %	P Max %	S Max %	Si Max %	Cr %	Ni %	Cu %	Mo Max %	N Max %	Ti %	Others
409	0.08	1	0.045	0.03	1	10.50 – 12.50	–	–	–	–	–	6×C
410	0.15	1	0.04	0.03	1	11.5 – 13.5	–	–	–	–	–	–
410 NiMo	0.06	0.6	0.03	0.03	0.5	11.0 – 12.5	4.00 – 5.00	–	0.75 max	–	–	–
430	0.1	1	0.04	0.03	0.75	16.0 – 18.0	0.60 max	–	–	–	–	–
430L	0.03	1	0.04	0.03	1	16.0 – 18.0	–	–	–	–	–	–
430LNb	0.02	0.8	0.03	0.02	0.5	17.8 – 18.8	0.3	0.3	0.3	–	–	Nb 0.05 + 7 (C+N) ≤ 0.75

WELDING ALLOYS

AWS Classification	C %	Mn %	Fe %	P %	S %	Si %	Cu %	Ni %	Al %	Ti %	Cr %	Mo %
ER CuNi (70:30)	0.1	1	0.4	0.02	0.015	0.5	65.0–70.0	29.0–32.0	–	–	–	–
ER CuNi (90:10)	0.05	1.5	0.5–1.5	0.02	0.01	0.2	Bal.	9.0–11.0	–	0.10–0.50	–	–
ER Ni 1	0.15	1	1	0.03	0.015	0.75	0.25	93.0 min	1.5	2.0–3.5	–	–
ER NiCrCoMo-1	0.05–0.15	1	3	0.03	0.015	1	0.5	Rem.	0.8–1.5	0.6	20.0–24.0	8.0–10.0
ER NiCrMo-7	0.015	1	3	0.04	0.03	0.08	0.5	Rem.	–	0.7	14.0–18.0	14.0–18.0
ER NiCu-7	0.15	4	2.5	0.02	0.015	1.25	Rem.	62.0–69.0	1.25	1.5–3.0	–	–
Fe-Ni (36%)	0.05	2.5	Bal.	–	0.03	0.5	2.5	28.0–36.0	1	–	–	–
Fe-Ni (55%)	0.05	2.5	Bal.	–	0.03	0.5	2.5	45.0–60.0	1	–	–	–
Inconel 62	0.08	1	6.0–10.0	0.03	0.015	0.35	0.5	70.0 min	–	–	14.0–17.0	–
Nickel Wire	0.1	1	Bal.	0.03	0.03	0.5	–	99.0 min	–	–	–	–
Fe-Ni (60%)	0.1	1	Bal.	0.02	0.03	0.15	0.35	57.0 min	–	–	–	–
Fe-Ni (55%) Cu (4%)	0.1	1	Bal.	–	0.02	0.2	3.5–4.5	53.0 min	–	–	–	–
ER385 (904L)	0.025	1.0–2.5	–	0.02	0.03	0.5	1.20–2.00	24.0–26.0	–	–	19.5–21.5	4.20–5.20
ER NiCr-3 (Inconel 82)	0.1	2.5–3.5	3	0.03	0.015	0.5	0.5	67.0 min	–	0.75	18.0–22.0	–
ER NiCrMo-3 (Inconel 625)	0.1	0.5	5	0.02	0.015	0.05	0.5	58.0 min	0.4	0.4	20.0–23.0	8.0–10.0
ER NiFeCr-1 (Inconel 825)	0.05	1	22.0 min	–	0.03	0.5	1.5–3.0	38.0–46.0	0.2	0.6–1.2	19.5–23.5	2.50–3.50
ER NiCrMo-10 (Hastelloy C-22)	0.015	0.5	2.0–6.0	0.02	0.01	0.08	0.5	Rem.	–	–	20.0–22.5	12.5–14.5
ER NiCrMo-4 (C-276)	0.02	1	4.0–7.0	0.04	0.03	0.08	0.5	Rem.	–	–	14.5–16.5	15.0–17.0

DUPLEX STAINLESS STEEL

Grade	C Max %	Mn Max %	P Max %	S Max %	Si Max %	Cr %	Ni %	Cu %	Mo %	N %	Others
2205	0.03	2	0.03	0.02	1	21.00 – 23.00	4.50 – 6.50	0.10 – 0.60	2.50 – 3.50	0.10 – 0.22	–
2209	0.03	0.50 – 2.00	0.03	0.03	0.9	21.50 – 23.50	7.50 – 9.50	0.75	2.50 – 3.50	0.08 – 0.20	–
2304	0.03	2	0.03	0.02	1	22.0 – 24.0	3.50 – 5.50	0.10 – 0.60	0.10 – 0.60	0.05 – 0.22	–
2507	0.03	1.2	0.035	0.02	0.8	24.0 – 26.0	6.00 – 8.00	0.50 max	3.00 – 5.00	0.24 – 0.32	–
2553	0.04	1.5	0.04	0.03	1	24.0 – 27.0	4.50 – 6.50	1.50 – 2.50	2.90 – 3.90	0.10 – 0.25	–
2594	0.03	2.5	0.03	0.02	1	24.0 – 27.0	8.0 – 10.50	1.5	2.50 – 4.50	0.20 – 0.30	W ≤ 1.0

OUR TEAM *The Strength Behind the Wire.*

Behind every coil of wire that leaves our facility is a team of experienced metallurgists, production engineers, quality specialists, and customer service professionals who take personal ownership of every order. At RWPL, we do not operate on a one-size-fits-all model.

Our team engages directly with clients from the inquiry stage, understanding specific grade requirements, application conditions, dimensional tolerances, and delivery timelines to ensure that the final product is engineered precisely to purpose. It is this human attention to detail, backed by three decades of accumulated expertise, that sets RWPL apart from the competition.



PACKAGING & EXPORTS

*Delivered Safely. Delivered on Time.
Delivered across the globe.*



Every RWPL product is packaged to protect its integrity through transit, whether it travels across the city or across continents. We offer flexible packaging configurations including coils, spools, reels and custom formats tailored to client handling and storage requirements.

Our facility's proximity to major logistics hubs ensures smooth and timely dispatch for both domestic and international shipments. RWPL proudly exports to global markets, and our growing international clientele is a testament to the trust we have earned through consistent quality and reliable delivery schedules.

APPLICATIONS *One Wire. Countless Possibilities.*

RWPL wire products are engineered to perform across an exceptionally wide range of industrial applications from precision springs, fasteners, chains, and wire ropes, to electrodes, filters, conveyor belts, textile loom reeds, and wall ties. The breadth of our application range is a direct reflection of the versatility, consistency and reliability of every product we make.



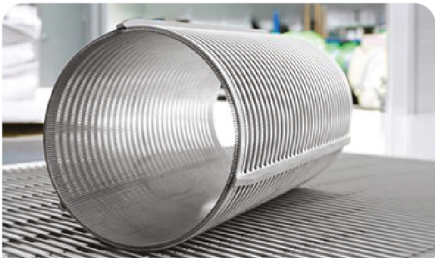
Welding Electrodes



Kitchen Ware & Baskets



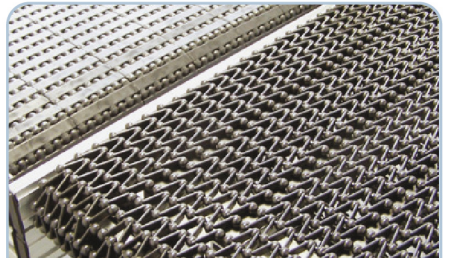
Nails



Screens



Balls



Conveyor Belts



Chains



Fasteners



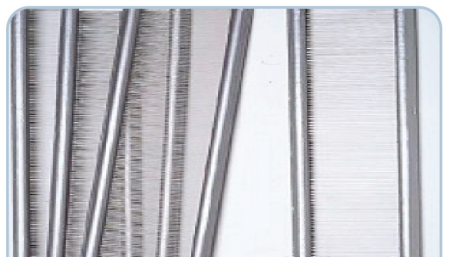
Filters



Staples



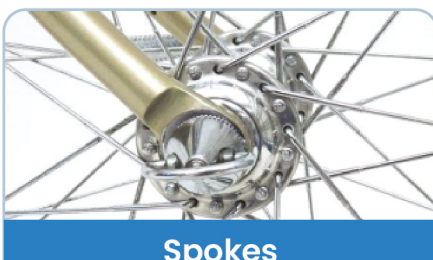
Wall Ties



Reed for Textile Looms



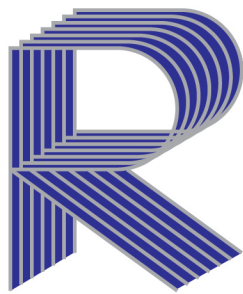
Springs



Spokes



Ropes



RATANAKAR
WIRE PVT. LTD.

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