



## **SHREE EXTRUSIONS LIMITED**

**Quality, Technology & Vision at it's Best**  
World Class Sourcing Solution for Copper Alloys Products



**An ISO 9001-2008 Certified Company**  
Laboratory Accredited By **NABL**



Extruded Copper and Copper Base Alloys Rods, Hollows Rods,  
Wires, Sections, Ingots & Tubes As per IS, BS, DIN, JIS,  
ASTMB, GOST & All Other International Specification



NABL / ISO : 17025  
Accreditation Number T - 1719/1720



[www.shree-extrusions.com](http://www.shree-extrusions.com)



## Quality

Shree Extrusions Ltd is an ISO 9001:2000 certified company with NABL Accreditation Lab as per ISO/IEC 17025 : 2005, T-1718 & T-1720. Our products are as per **ROHS** and **REACH** Compliance with sophisticated quality control equipments & quality assurance Systems using modern latest equipments like Spectrometer, Eddy current Testing, Metallurgical Microscope, Impact Testing Conductivity Meters, Mercurous Nitrate Test, Profile Projector, LPT Test, Computerized UTM.



Means **Modesty**

Means **Respect**

**Shree Extrusions** Means Quality

## Technology

Shree Extrusion Ltd with years of Experience is meeting the needs of diverse Industries by offering Copper & Copper alloys wires, rods & tubes. Combining technology & Innovation. Our aim is to be the leader in the industry with the use of latest technologies & machinery. We offer improved range of products meeting world class standards as per IS, BS, DIN, JIS, ASTM, GOST & All other international specifications.

Quality, Technology & Vision at it's Best



## Vision

**Shree Extrusions Ltd.** with a production capacity of 6000 MT per annum sprawls across an area of 100000 Sq ft. with unique design of constructed area of 70000 Sq ft. which maximizes productivity it enables us to transfer benefits of the large scale operations to the customers in order to consistently manufacture international quality products. The company has employed a dedicated team of highly qualified and experienced engineers and management professionals.

Turning **Brass** into, **Gold**



## Certification & Achievements

- Our Laboratory has been approved by NABL & DGQA
- Garden Reach Shipbuilders & Engineers Limited, Calcutta
- Material Organization Mumbai, Vishakhapatnam, Khamaria
- Hindustan Shipyard Ltd., Vishakhapatnam
- Gun Carriage Factory, Jabalpur
- Ordinance Factory, Katni / Khamaria / Dumdum
- Mazagon Dock Limited, Mumbai, India
- Naval Dockyard, Mumbai
- Ship Building Centre, Vishakhapatnam
- Bharat Heavy Electricals Ltd.
- Gun & Shell Factory, Cossipore
- Metal & Steel Factory, Kolkata





## Product Range



Solids and Profiles



Wires



Tubes



Ingots

## Industrial Application



Valves



Fasteners



Tyre Tube Valves



Faucet & Sanitary Wares



Connectors



Electrical Fittings



Ball Bearing Cages



Gears



Petrochemicals



Ball Pen Tips Industries



Automobiles



Ship Building

## Industries We Serve

- Sugar Mills
- Ball pen Tips Manufacturers
- Railways Engine Components
- Tyre Tube Valves Manufacturers
- Electrical Motors Manufacturers
- Automobiles Parts Manufacturers
- Scientific Equipments Manufacturers
- Petro Chemical Industries & Refinery
- Ball Bearing Industries Manufacturers
- Air Conditioning Plants Manufacturers
- Electronic and Electric Components & Equipments
- Telecommunications Components Manufacturers
- Fasteners
- Thermal Power Plants
- Transformer & Switch Gears
- Surgical Equipments Manufacturers
- Watches & Time Piece Manufacturers
- Air Crafts Components manufacturers
- Agricultural Equipments Manufacturers
- Electrical & water Meters Manufacturers
- L.P.G. & Industrial Valves Manufacturers
- Sanitary Hardware Fitting Manufacturers
- Ship Building / Naval Dock Components
- Condenser & Heat Exchanger Manufacturers





## Brass Wires

We are engaged in offering of Superior quality of Brass Wires that are available in varied sizes for meeting the demands of our clients. Brass Wire widely finds applications in Fasteners, Rivets, Domestic Application, Automotive Engineering, Intricate parts such as Clock Components, Precision Components, Screws, Nuts & Bolts, Gear, Pinions, Electronic Parts, Precision Components Machining with Riveting Operation, Cold Heading, Forging, End Pressing & Bending. We offer Wires in **Riveting Brass, Free Cutting Brass, Lead Free Brass.**



## Brass Rods

The range of Brass Rods manufactured by us is valued for its excellent cutting & drilling performance, high conductivity, mechanical strength and corrosion resistance. These Brass Rods find applications in various sectors like LPG Valves, Industrial Valves, Electric & Electronics Components, Fittings, Hose Fittings, Hardware, Lock Bodies, Hinges. We offer Rods in **Forging Brass, High Tensile Brass, Riveting Brass, and Free Cutting Brass, Naval Brass, Lead Free Brass.**

## Brass Hollow Rods

Brass Hollow Rods offers significant economic advantages, by way of removing the need for drilling operations, and reducing the boring out of the parts. Brass Hollow Rods find applications in making of taps, valves (plumbing-heating industry), Hose Fitting, Cable Gland & many components that require boring, Automobile Industry for Synchronizer Ring, Bearing Cage and Brass Retainer. We offer Hollow Rods in **Forging Brass, High Tensile Brass, Riveting Brass, Free Cutting Brass, Naval Brass, Lead Free Brass.**



## Brass Flats & Profiles

We offer Brass Flats & Profiles in various sizes for any specific use requested by the customer, from very simple to the most complex shapes. These Brass Flat & Profiles are widely used in Interior Decoration, Buildings, Furnishings, Doors, Windows, and various engineering application. We offer Brass Flats & Profiles in **Forging Brass, High Tensile Brass, Riveting Brass, Free Cutting Brass, Naval Brass, Lead Free Brass.**

## Bronze Rods

Bronze is harder than copper as a result of alloying the metal with Tin, Nickel & Lead. Bronze is also more fusible (i.e., more readily melted) and is hence easier to cast. It is also harder than pure iron and far more resistant to corrosion. Bronze is substitute of Iron in tools & weapons. Bronzes are finding increasing use in Chemical, Petrochemical, Desalination Plant, Ship Building, Power Generation, Aircraft, Automotive and Railway Engineering. We offer Bronze Rod in **Aluminum Bronze, Aluminum Silicon Bronze, Phosphorus Bronze, Lead Bronze.**





## Brass Wires for Ball Pen Tips

The entire range of Brass Wire for Leaded Ball Pen Tip is manufactured using finest quality of Raw Material from reliable and certified sources from market. These wires are valued for their resistivity against Ink & Moisture, longer operational life, low maintenance and strength. We also specialize in field of customization to offer complete client satisfaction for production of various types of tips. We offer special brass wire **SBP (Shree Ball Pen)**, **MS58**, **RT61**.



## Nickel Silver Wires for Ball Pen Tips

Nickel silver wire is a copper alloy with Copper, Nickel, Lead & Manganese. We offer a premium quality range of Nickel Silver Wire for Ball Pen Tip, which is acknowledged for its corrosion resistance, high strength and high conductivity. Due to our high-powered conductivity Eddy current tests. We have been able to fabricate and export defect less range of **Nickel Silver Wire**, **NM3**, **NM6**.

## Brass Brazing Wires & Rods

Copper alloys are base metal alloys used for high temperature brazing of various steels or tungsten carbide. Brass Brazing is Cost effective alternative to silver brazing alloys wherein high joint strength can be readily achieved. Some alloys also offer excellent corrosion resistance with thermal and electrical conductivity. We offer these alloys in standard composition suitable for specific application. We offer **Silicon Brass Brazing**, **Silicon Manganese Brass Brazing**.



## Brass Flat Wires

We provide high quality Brass Flat Wire with Bright surface finishing and brass color widely used in Zipper Industries suitable for teeth formation, bending and punching work, top and bottom stopper. Also suitable for electronic industries for punching work. We offer **Lead Free Brass Flat Wires (Lead controlled in PPM)** **60/40**, **63/37**, **65/35** & **70/30**.

## Brass Tubes

Our vast experience & product knowledge allow us to successfully handle the demands of Brass tubes. Our well-equipped manufacturing unit allows us to ensure quality in accordance with defined international standards. Well recognized for their superior corrosion resistant finish, these brass tubes also have high wear resistance as well as low friction coefficient against steel. These Brass Tubes are used in different areas including General Engineering Purposes, Arsenic Brass Tubes for Sugar Industries, Tubes for Evaporators & Coolers, Heat Exchanger, Brass Tubes for Sanitary Fittings & Accessories and Brass Tubes for Agriculture Equipment, Furniture & Lighting Fixtures,. We Offer **70/30 Brass Tubes**, **63/37 Brass Tubes**, **Admiralty Brass Tubes**, **Aluminum Brass Tubes**.

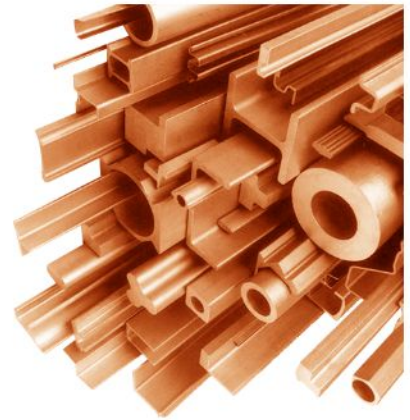






## Copper Alloy Rods & Profiles

Copper Rods & Profile are alloys of metals with copper as their major component. Our range of Copper Rods & Profile is available in various shapes like round, square and hex. These alloys are offered at Competitive prices and are known for their high conductivity, corrosion resistant and fine finish. Copper alloy Rods are used in General Engineering Purpose, High Electrical and Thermal Conductors, Switches, Terminals, Gaskets, Nails, Rivets, Electrode holders for resistance welding machines arc furnaces, Components & Parts requiring high temperature & Corrosion Resistance, High softening switch components, Cold Headed Torch tips, Nozzles for Burners etc. We offer **High Conductivity Copper, Cadmium Copper, Lead Copper, Sulphur Copper, Arsenic Copper, Tellurium Copper, Commercial Copper.**

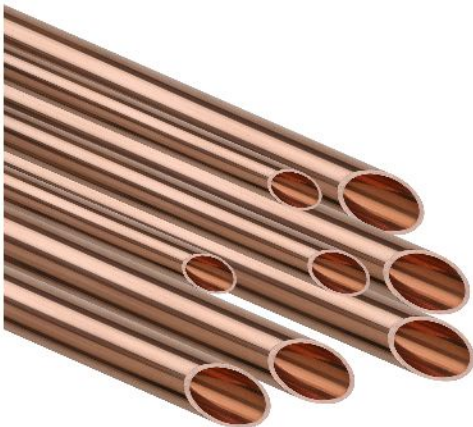


## Copper Nickel Rods

Excellent hot and cold workability, good forge ability, excellent Susceptible to galvanic corrosion when coupled with iron, aluminum, magnesium, lead, tin, and zinc. Good resistance to atmospheric, sea water, non-oxidizing acid corrosion. Copper Nickel Rods extensively used in Heat Exchanger, Condenser Application, General Engineering, Refineries, Power Plant, Desalination Plants. We offer Copper Nickel Rods **70/30, 90/10 & 95/5.**

## Copper Nickel Wire / Resistance Wire

We offer resistance heating alloys in wire form making it possible to select the most appropriate grade and size for various respective applications such as Heating Cables, Fuses, Shunts, Resistors and various types of Controllers. Resulting in optimum end-product performance. We offer **CuNi2.2, CuNi6 & CuNi11.**

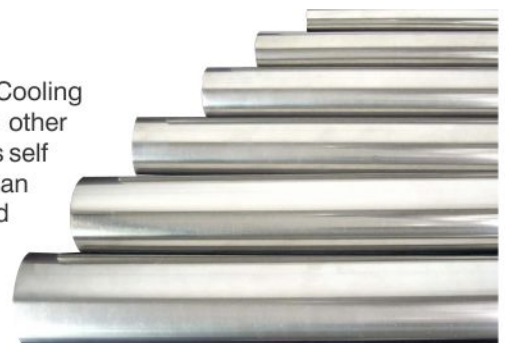


## Copper Alloys Tubes

Using latest technology & optimum quality raw materials. We are manufacturing and exporting our clients a wide assortment of Copper Tubes. Owing to their salient features such as durability, corrosion & rust resistance, high conductivity and unmatched performance. These Industrial Copper Tubes find applications in Electrical Components, Locomotive Boilers, Plumbing, Cable Terminal, Engineering Application, Instrumentation industries. Our products pass through stringent quality checks before final dispatch to ensure that the clients get a defect free range of copper tubes. We offer Copper Tubes in **DLP, DHP, ETP, Commercial Copper.**

## Copper Nickel Tubes

Copper Nickel Tube is mainly preferred when the severity of service condition (Cooling water, steam, condensate, temperature, etc.) is such as to virtually rule out all other copper metals. Due to its hardness and to the type of oxide whereby its surfaced is self protected and widely used in sea water. It has very good corrosion resistance to clean or moderately polluted marine or estuary water, even containing dissolved incondensable gases. This alloy is virtually immune from stress-corrosion cracking and hot spot denickelification. We offer Copper Nickel Tubes **70/30, 90/10 & 95/5.**





# Capabilities

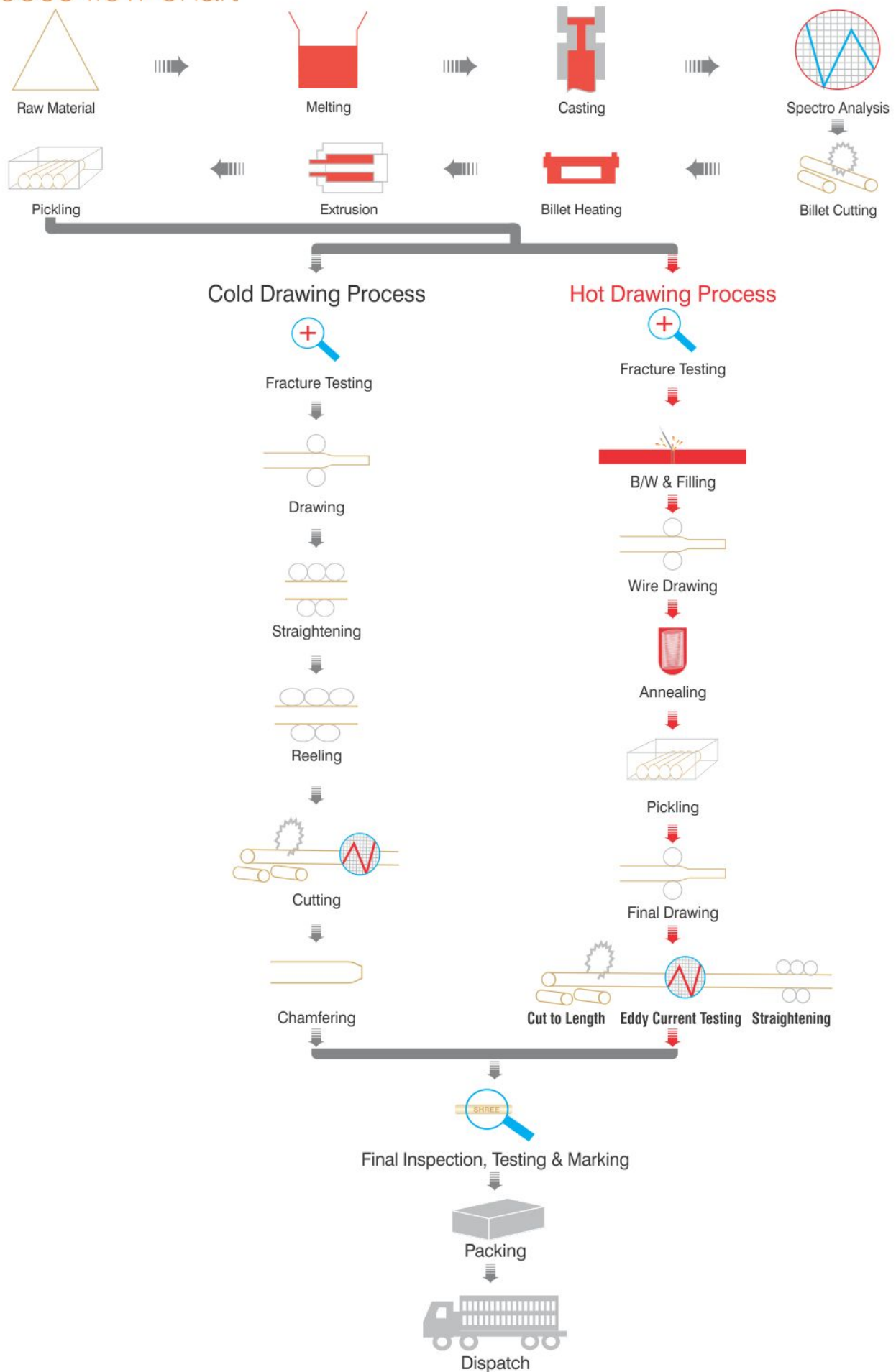
## Production range: Rods / Wires / Hex / Tubes / Square / Flat / Profiles / Hollows

Tubes	6.35 mm to 110 mm
Round Wires	1 mm to 11 mm
Round Rods	1.2 mm to 250 mm
Hex	5 mm to 60 mm
Square	4 mm to 60 mm
Flat	5 mm Min Thickness and Max Width 120 mm
Profile	As per Customer Drawing
Hollow Rods	Min Bore size 20 mm and Max OD 130 mm

<b>Leaded Brases</b>  Wires/Rods/Solids and Hollows/Hex/ Rectangles/square/ Flat/Profiles	Free Cutting Brass	ASTM B 455/ B 16 C 38500 / C36000 / BS 2874 CZ-121Pb3, Cz124 Grade I/II/III/ JIS 3250 H C3604, C3602 IS-319-I & II, BS-249
	Forging Brass	ASTM B 124 C37700 / BS 2874 CZ 122 / IS 3488 Forging Brass
	High Tensile Brass	IS 320 HT1 or HT2 / BS 2874 CZ114 & Cz115 / JIS 3250H C6782 or C6873, BS1001-Type I&II, IS 8737-II
	Riveting Brass	IS 4170 CuZn40 BS 2874 Cz109 / JIS 3250H C2800 / ASTM B171 C36500 / IS 4413 CuZn37 / BS 2872 CZ 108,CZ131
<b>Lead Free Brases</b>  Ingots/Biliets/Finished Tubes/Wires/ Rods Solids and Hollows/Hex/ Rectangles/Square/Flat/Profiles	Nickel Silver	IS 10757 Nickel Silver / BS 2874 Ns101 / ASTM 79830 / NM3 / Nm6
	70/30 Brass	ASTM B 135 C26000/ BS 2871 Part 3 CZ- 126/EN 12451 CuZn30As/ NFA 51 102 CuZn30 / JIS H 3300 C2600 / As 1572 26130
	65/35 Brass	ASTM B 135 C27000/CuZn35/ BS CZ107
	63/37 Brass	ASTM B 135 C27000/ JIS H 33000 C 2700/ ISO 1637 CuZn37, ASTM C27200, C27400, IS4413 grade I & II
	60/40 Brass	IS 4170/67 ASTM C36500, CZ109,JIS3250H C-2800
<b>Bronze</b>  Wires/Rods Solids and Hollows/Hex/ Rectangles/square/Flat/Profiles	Red Brass	ASTM B 135 C 23000/ BS 2870 CZ 102/ JIS H3300 C 2300 ASTM C69400, C69430
	Naval Brass	IS291 Grade I & II / BS 2874 CZ 112/ JIS 3250 C4622/ ASTM C48200, C48500, C46200, C46400
	Tin Bronze	ASTM B30 C92600, C92600, PB102, BS1400 (Pb1), BS 1400 GI
	Aluminum Bronze	ASTM B 111 C60800/ASME SB 111 C 60800/EN 12451 CuAl5As/ CW200G / C61400/ C95400/ 61800/ C62300/ C62400/ C62500/ C95200/ C95900/ CuAl11Ni5Fe5, BS1400-AB1 & AB2, BS2874 CA104 & CA103
	Alu. Silicon Bronze	ASTM B 150 C 64200/ SAE J 463 C 64200 /C63600/ C65620/ C65100/ C65300/ C65500/ C65610
	Led. Comm. Bronze	ASTM B 140 C31400
	Phosphors Bronze	ASTM B103 C 51000/ SAE J 463 C51000/ BS2874 PB 102
<b>Copper</b>  Ingots/Biliets /Finished Tubes/Finned Tubes/U-Bend Tubes/Rods/Hex/ Square/Flat/Profiles	Manganese Bronze	C67300 / C67500/ C66800/ C67400/ C67600/ C86200/ C67000, BS 1400 / HTB-3
	Nickel Alu. Bronze	C63000/ C63020/ C63200/ C95510/ C95510/ C95500/ C95520/ CuAl10Ni5Fe4 / CW307G/ C95800/ C96900
		IS 10569: 1983 - Grage I, II & III
	DHP Copper	ASTM B 68 C12200/ ASTM B 75 DLP C12000/ BS 2871 Part 2 C 101/ BS 2871 Part 3 C 106/ EN 12451 DHP/ JIS H3300 C 1220
	DLP Copper	ASTM B 68 C12200/ ASTM B 75 DLP C12000/ BS 2871 Part 2 C 101/ BS 2871 Part 3 C 106/ EN 12451 DHP/ JIS H3300 C 1220
<b>Cupro Nickel</b>  Ingots/Biliets/Finished Tubes/ Finned Tubes/U-BendTubes/Wires/Rods/Hex /Rectangles/Square/Flats/Profiles	EC/ ETP Copper	ASTM B 68 C12200/ ASTM B 75 DLP C12000/ BS 2871 Part 2 C 101/ BS 2871 Part 3 C 106/ EN 12451 DHP/ JIS H3300 C 1220
	Other Copper	Beryllium & Chromium Copper, Cadmium Copper, Sulphur Copper, Arsenic Copper, Tellurium Copper, Zirconium Copper, Commercial Copper.
	70/30 copper Nickel	ASTM B 111 C71500/ ASME SB 111 C71500/ BS 2871part 3 CN 107/EN 12451 CuNi30Fe1Mn/ NFA 51 102 CuNi30Fe1Mn/ JIS H 3300 C7150
	90/10 copper Nickel	ASTM B 111 C70600/ ASME SB 111 C 70600/ BS 2871 part 3 CN 102/EN 12451 CuNi10 Fe1Mn/ NFA51 102 CuNi 10 Fe1Mn/ JIS H 3300 C7060
<b>Brass for Condensers &amp; Heat exchangers</b>  Ingots/Biliets/Finished Tubes/Finned Tubes/U-Bend Tubes/Rods/Hex/ Square/Flats	95/5 Copper Nickel	ASTM B 111 C 70400/ ASME SB 111 C70400/ BS 2870 CN 101/ISO 1635 CuNi5Fe1Mn/ JIS C 2532 / GCN10
	CuNi2.2	ASTM C70200
	CuNi6	ASTM C70500
	CuNi11	ASTM C70800
<b>Brass for Condensers &amp; Heat exchangers</b>  Ingots/Biliets/Finished Tubes/Finned Tubes/U-Bend Tubes/Rods/Hex/ Square/Flats	Admiralty Brass	ASTM B 111 C44300/ ASME SB C44300/ BS 2871 Part 3 CZ-111/EN 12451 CuZn28 Sn1As/ NFA 51 102 CuZn29Sn1 / JIS H 3300 C 4430
	Aluminum Brass	ASTM B 111 C68700/ ASME SB 111 C68700/ BS 2871 Part 3 CZ-110/EN 12451 CuZn20 AL2As/ NFA 51 102 CuZn22AL2 / JIS H 3300 C6870
	Aluminum Bronze	ASTM B 111 C 60800/ ASME SB 111 C60800/ EN 12451 CuAl5As/ CW200G



## Process flow chart





## Plant & Machinery

Coreless Type Induction Melting Furnace



Horizontal Oil Hydraulic Extrusion Press



Wires



Rods



Bull Block



PLC Controlled Draw Benches



Eddy Current Testing Machine



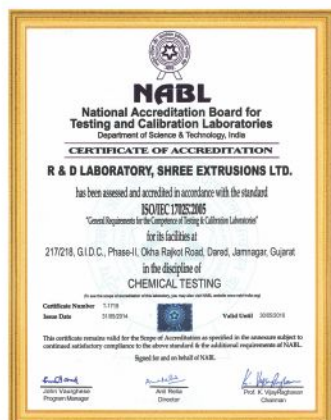
Superior Quality Packing



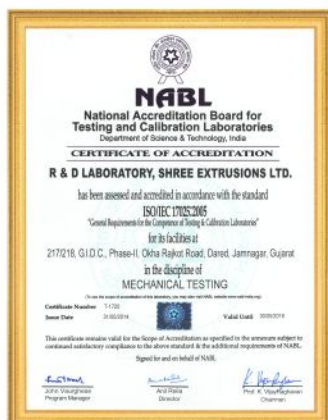




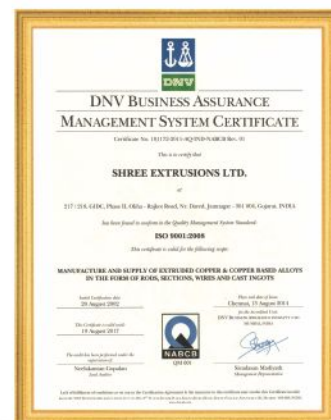
## Quality Control / R & D



ISO/IEC17025:2005  
Accreditation Number T-1719



ISO/IEC17025:2005  
Accreditation Number T-1720



ISO 9001:2008  
Certificate No.101172-2011-AQ-IND-NABCB Rev-01

Optical Emission Spectrometer



Impact Testing Machine



Chemical Laboratory



Universal Testing Machine



Hardness Testing Machine



Microscope Grain Tester



### PROCESS EQUIPMENTS

- Induction Furnaces
- Oil Fired Furnaces
- Hydraulic Extrusion Press
- Annealing Furnaces
- Inverted Heavy Wire Drawing M/C
- Tandem Wire Drawing M/C
- Multi Die Wire Drawing M/C
- Single Drum Wire Drawing M/C
- PLC Control Rod Drawing M/C
- Straightening Cutting & Rilling Line
- Flattening Mill
- Chamfering & Inspection Line

### QUALITY CONTROL EQUIPMENTS

- Spectrometer of Spark emission Technology (ROHS Compliance (SWITZERLAND))
- Eddy Current Testing Machine (GERMAN)
- Metallurgical Microscope With CCTV attachment (JAPAN) Hardness Tester
- Impact Testing Machine
- Conductivity Meters
- Ultrasonic Testing Machine
- Mercurous Nitrate Test
- Profile Projector
- Liquid Penetration Test
- Computerized Ultimate Tensile Measurement Tester
- Hardness Tester (Heavy)
- Micro Hardness Tester

### UTILITY

- Diesel Generators
- High Pressure Air Compressors
- Pickling Tanks
- Stretch Wrapping Machine for Quality Packing
- PLC Based RO Plant for Industrial Water Supply
- Cooling Towers
- EOT Cranes
- Hydraulic Loader Dock
- Stores
- Lathe/Grinding/Shaper M/C
- Die Room for TC Extrusion / Draw Die
- Diamond Die Polishing / Recondition Unit
- Maintenance



## Quality Assurance Plan

Sr. No.	Process	Characteristics to be Checked	Measuring Instruments	Quantum to be Checked
1	Raw Material Inspection	Purity	Spectro Analyzer	Random Sampling
2	Melting & Casting	Charge Quantity	Weighing Scale	100%
		Temperature	Thermo Couple	100%
		Chemical Composition	Spectro Analyzer	100%
3	Billet Cutting	Appearance Micro Structure	Visual	100%
4	Extrusion	Temperature	Radiation Pyro Meter	100%
		Dimensions	Micro Meter	Random Sampling
5	Extruded Rods/Coils Inspection	Dimensions	Micro Meter	Random Sampling
		Appearance	Visual	100%
6	Fracture Test	Piping	Fracture	100%
7	Drawing Process	Dimensions	Micro Meter	Random Sampling
		Surface	Visual	100%
8	Straightening	Dimensions	Micro Meter	Random Sampling
		Straightness	Visual & Measurement	100%
9	Finish Cutting	Length	Measuring Tape	100%
10	Pre-Inspection of Coils	Cracks	Magnifying Glass	100%
		Dimensions & Weight	Micro Meter	Random Sampling
			Measuring Scale	100%
		Surface	Visual	100%
11	Annealing	Temperature	Thermo Couple	Batch Wise
		Soaking	Temp. Controller	Batch Wise
12	Final Drawing	Dimensions	Micro Meter	Random Sampling
		Surface	Visual	100%
13	Dimensional Check	Outer Diameter, Ovality	Micrometer &	100%
		Length, Straightness	Measuring Tape	
14	Final Inspection	Surface	Visual	100%
15	Ultrasonic Test	Internal Crack/ Surface Defects	Ultrasonic Machine	100%
16	Eddy Current Test	Cracks/Dimensional Defects	Addy Current	100%
		Wires & Coils	Testing Machine	
17	Chemical Analysis of Final Product	Chemical Composition	Spectro Analyser	Random Sampling
18	Mechanical Properties Test	Microscopic Examination	Microscope CCD Camera	Batch wise
		Tensile Test	UTM	Batch wise
		Hardness Test	Hardness Tester	Batch wise
		% Elongation	UTM	Batch wise
		Yield Strength Test	UTM	Batch wise
		Mercurous Nitrate test	Chemical Lab	Batch wise
19	Packing	Weight & Packing	Customer's Requirement	100%



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**MANUFACTURERS OF COPPER BASE ALLOYS, RODS, WIRES, FLATS, SECTIONS, INGOTS & TUBES**

### **Registered Office and Factory:**

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Nearest Domestic Air Port : Jamnagar - 3 kms.  
Nearest International Air Port : Ahmedabad 325 kms.



Nearest Port : Kandla - 222 kms., Mundra - 300 kms.