ELECTROSTEEL

RUBBER BROCHURE

HIGH-PERFORMANCE
RUBBER PRODUCTS

- SUPERIOR SEALING PERFORMANCE
- INJECTION AND COMPRESSION MOULDED MANUFACTURING.
- GLOBAL STANDARD QUALITY
- SUSTAINABLE MATERIAL SOURCING

MANUFACTURING EXCELLENCE

- ADVANCED MANUFACTURING
- CONSISTENT QUALITY
- IN-HOUSE R&D EXPERTISE
- BACKED BY 70+ YEARS LEGACY
- RIGOROUS QUALITY CHECKS
- ISO 9001 CERTIFIED

PERFORMANCE THAT SEALS CONFIDENCE

ELECTROSTEEL

ENGINEERING THE FUTURE OF INDUSTRY

For over seven decades, Electrosteel Castings Limited (ECL) has built a legacy of engineering and manufacturing excellence. Recognized as one of India's leading manufacturers of Ductile Iron Pipes and Fittings, ECL has continuously diversified its capabilities in metallurgy and industrial solutions. Today, with operations spanning 130 countries and five continents, the company delivers innovative, high-quality products backed by advanced technology, robust manufacturing, and an unwavering commitment to excellence.

GLOBAL CERTIFICATIONS

Electrosteel's quality systems are certified to ISO 9001 and validated by globally recognized authorities.

- BIS INDIA
- DVGW GERMANY
- WRAS UK
- NF FRANCE
- DWI UK
- ÖVGW AUSTRIA
- UL/FM USA
- BV ITALY
- BSI UK

TOP 3
Preferred DI Pipe Producer Globally

70+
Years of Excellence

130
Countries Served

ED-06-2026

RUBBER GASKET OVERVIEW

ELECTROSTEEL CASTINGS LIMITED operates a state-of-the-art Rubber Products Manufacturing Plant at Punganur, Andhra Pradesh, producing Tyton Rubber Gaskets, Railway Moulded Rubber Products, and Industrial Rubber Components for critical applications with a strong focus on import substitution.

Driven by quality, we ensure reliable products through efficient logistics, competitive pricing, and ethical business practices, delivering exceptional value and customer satisfaction.

Backed by a skilled team of professionals, our products are designed and manufactured in compliance with international standards and stringent quality specifications.

Precise Sealing Geometry
Uniform bore profile, controlled compression zones & consistent wall thickness.

High Joint Reliability
Consistent sealing performance across push-fit, restrained & flexible joint applications.

Stringent Quality Assurance
Manufactured under precise dimensional specifications with BIS-licensed EPDM/NBR compounds.

Sustainable Engineering
Durable elastomer compounds extend service life and reduce replacements.

ELECTROSTEEL

WHY CHOOSE
ECL RUBBER

Backed by over 70 years of engineering excellence, Electrosteel Industrial Rubber deliver world-class protection, and performance across diverse industrial applications.

INTERNATIONAL QUALITY STANDARDS
Consistent quality engineered to meet global industrial benchmarks.

ASSURED QUALITY. PROVEN RELIABILITY
Tested through advanced quality assurance systems and world-class testing equipment.

ADVANCED R&D & MANUFACTURING
Innovation-driven solutions supported by modern manufacturing infrastructure and technical expertise.

PREMIUM RAW MATERIALS
Carefully sourced, high-grade raw materials for enhanced durability and long-term performance.

EXCELLENT PERFORMANCE
Superior usage, and reliable performance across demanding environments.

TRUSTED GLOBAL APPROVALS
Approved by internationally recognized bodies, including WRAS (UK).

INNOVATION DRIVEN

TRUSTED WORLDWIDE

SUSTAINABLE SOLUTIONS

MADE TO RESIST
DESIGNED TO LAST

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ELECTROSTEEL

APPLICATION SECTOR

DI Pipe for Drinking Water and Sewage Application.

CI Pipe for Drinking Water and Sewage Application.

Railway Rubber Products

- Vestibule
- Elastomeric Pad

TESTING LABORATORIES

RAW MATERIAL TESTING FACILITIES

- Hot air Oven
- Muffle Furnace
- Sieve Analyser
- Kinematic Viscometer
- Melting Point Apparatus
- Microscope

OTHER TESTING FACILITIES

- Mooney Viscometer
- Oscillating Disc Rheometer
- Universal Testing Machine
- Hardness tester
- IRHD Hardness tester
- Stress Relaxation Apparatus
- Specific Gravity Apparatus
- Abrasion Testing
- Flame Testing
- Lab Mixing Mill
- Lab Hydraulic Press
- Ageing Oven
- Cold Chamber
- Soxhlet & Distillation apparatus
- Ozone Chamber
- Extensometer
- Toxicity Testing
- Fatigue Testing
- Limiting Oxygen Index (LOI) Testing

QUALITY TESTING. RELIABLE APPLICATIONS.

RUBBER PRODUCTS

RUBBER PUSH-ON GASKETS		Our plant specializes in manufacturing high-quality rubber push-on gaskets designed to prevent leakage and ensure effective sealing in Ductile Iron (DI) Pipe joints fittings. Manufactured using premium-grade rubber materials, these gaskets are available in sizes ranging from 80 mm to 1200 mm, suitable for corresponding pipe diameters. Our products conform to leading industry standards such as IS 5382 and WRAS and our facility is ISO 9001 certified, ensuring consistent quality and performance.
MECHANICAL JOINT GASKETS (EPDM & NBR)		Our plant manufactures high-quality Mechanical Joint (MJ) Gaskets ranging from 50 mm to 1200 mm, suitable for DI Pipes and Fittings as well as CI Pipes and Fittings. The ECL-branded EPDM MJ gaskets are specifically designed for water, drainage, and sewerage pipellines, ensuring reliable performance and long service life. These gaskets are suitable for both underground and above-ground applications, providing excellent sealling and durability under varying conditions.
FLANGE GASKETS		Our plant manufactures flange Gaskets ranging from 80 mm to 1200 mm, designed for use with DI Flange Pipe. Flange gaskets are used to join, fit, and prevent leakage between two sections of a pipeline. We produce both standard and custom-designed flange gaskets, including ring type and full-face configurations, to meet diverse application requirements. These gaskets are made from EPDM rubber and are suitable for DIN Standard Flanges (PN 10, 16, 25, and 40), ensuring reliable sealing performance and long service life.

QUALITY ASSURANCE

Gaskets are made normally from EPDM rubber which has the following properties:

- Heat Resistant
- Weathering Resistant
- Chloramine Resistant
- Antimicrobial Resistant
- UV Resistant
- Abrasion Resistant

PLANT AND MACHINERY

Electrosteel Rubber Gaskets are engineered to deliver superior sealing performance, long-term durability and dimensional precision across a wide range of industrial environments and critical infrastructure applications.

1

INTERMIX

Heavy-duty internal mixer that blends raw rubber, carbon black & chemicals uniformly, ensuring consistent compound quality and optimal dispersion for every batch.

2

DISPERSION KNEADER (75L)

High-shear kneading unit that achieves fine, uniform dispersion of fillers and additives, enhancing compound homogeneity and final product mechanical strength.

3

COMPRESSION MOULDING MACHINES

Precision hydraulic presses (150T–800T) that shape rubber compounds under controlled heat & pressure, delivering dimensionally accurate, defect-free gaskets across multiple sizes.The compression moulding machines are available in three platen sizes: 150T (750mm × 750mm), 400T (1000mm × 1000mm), and 800T (1500mm × 1500mm).

4

INJECTION MOULDING MACHINE

Automated high-precision moulding system that produces complex gasket profiles with tight tolerances, ensuring repeatable quality and higher production efficiency.

Our machines include

- Mixing Mill (6" x 42" up to 22" x 60")
- 2500 kVA Power Supply
- Chord Auto Cutter
- Bale Cutter-Capacity-10T
- Cooling Conveyor
- Cold & Hot Feed Rubber Extruders

ELECTROSTEEL

ESTABLISHMENTS

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TALK TO OUR RUBBER EXPERTS

Looking for rubber tailored to your needs? Get in touch with our experts for product information, technical guidance, and business enquiries.

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ONE SOURCE.
ENDLESS SOLUTIONS.

Electrosteel Castings Limited offers a wide range of industrial solutions engineered for performance, protection and aesthetics across diverse industries and environments.

TALK TO OUR RUBBER EXPERTS

Looking for rubber tailored to your needs?
Our experts are here to help.

- Product Selection
- Technical Guidance
- Application Support

+91 81210 24047

rubber@electrosteel.com

OUR PRODUCTS

- DUCTILE IRON PIPES
- DUCTILE IRON FITTINGS
- VALVES
- **RUBBER PRODUCTS**
- INOCULANT
- CEMENT
- PAINTS

...and more

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