Since 1972

RATHI® POWERTECH® REBARS
Strength that Withstands Time

RATHI STEEL AND POWER LTD.

THE BACKBONE OF MODERN CONSTRUCTION

RATHI POWERTECH REBARS
Strength that Withstands Time

Empowering Excellence in Steel

In the realm of steel, Rathi Steel and Power Limited is more than a name – it's a commitment to excellence by the promoters since 1940's. We strive to pioneer the steel industry through revolutionary sustainable steel solutions. Our vision is to create a future where our innovative steel products and services drive progress, inspire growth, and shape a more robust and sustainable world. By investing in technology and product quality, our mission is to secure and expand market share while being aligned with our stakeholders' interests - shareholders, the Government, employees, and customers. Our installed capacity is approximately 2,00,000 TPA for rolled products and around 80,000 TPA for melting facilities.

QUALITY ASSURANCE

Rigorous Testing: Each bar undergoes stringent quality checks at every stage of production.

State-of-the-Art Manufacturing: Using Cantilever Stands and Block Mill

Lesser Carbon Foot Print: Using Green Energy

Best Quality Rebars: Superior Quality raw material tested in house ensure production of best quality rebars.

WHERE INNOVATION TAKES SHAPE:

Our Cutting-Edge Manufacturing Facilities

- Hot Charging Conveyers
- Cantilever Stands
- State-of-Art Block Mill
- Stereo Microscope
- Inverted Type Metallurgical Microscope
- Mechanical Extensometer
- Optical Emission Spectrometer
- Universal Testing Machine
- Rockwell Hardness Tester

BENEFITS OF 550D

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RATHI POWERTECH 550D

Fe 550 D rebars offer significant advantages over lower grades, making them a superior choice for modern construction. The "Fe 550" denotes iron with a minimum yield strength of 550 N/mm², and the crucial "D" signifies enhanced ductility

Superior Strength:

- **Higher Yield Strength :** Minimum yield strength : 550 N/mm²,
- **Higher Tensile Strength:** Higher ultimate tensile strength - resist breaking under maximum stress.

Enhanced Ductility (the "D" factor):

- **Seismic Resistance:** - Vital in earthquake-prone zones.
- **Bendability:** Good bendability
- **Better Corrosion Resistance:** Lower carbon content - better corrosion resistance.
- **Good Weldability:** Controlled chemical composition
- **Thermal Resistance:** Higher resistance to softening at elevated temperatures- beneficial in case of fire.

Chemical Composition of Rathi Powertech TMT Rebars (Grade FE 550)

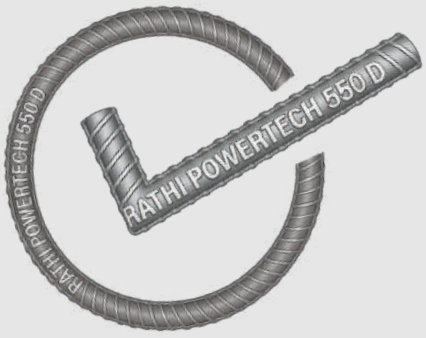
Specification	%C	%S	%P	%(S+P)	%Cr + %Cu
Fe 550	0.30Max	0.055Max	0.050Max	0.100Max	
Fe 550D	0.25Max	0.040Max	0.040Max	0.075Max	
Fe 550 CRS	0.15Max	0.040Max	0.040Max	0.075Max	0.40 Min

Physical Properties of Rathi Powertech TMT Rebars (Grade FE 550)

Specification	0.2% Y.S. (N/mm2)	UTS (N/mm2)	% Elongation	% Total Elongation at Max Force	C.E
Fe 550	550 min	> 585	14.5 Min	-	0.42 max
Fe 550D	550 min	> 600	18.0 Min	5	0.42 max
Fe 550 CRS	550 min	> 600	18.0Min	5	0.42 max

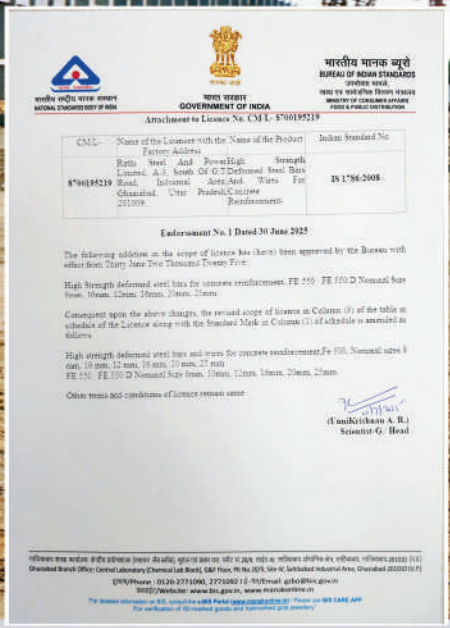
WHY RATHI® POWERTECH® TMT REINFORCEMENT BARS ?

- **Just in Time Delivery –** Ready Stock with regular stockturnover
- **Superior Strength (550 D Grade):** Meets and exceeds IS 1786:2008 standards.
- **Enhanced Ductility:** High elongation for excellent seismic resistance.
- **Advanced Rib Pattern:** Ensures a stronger bond with concrete.
- **Corrosion Resistance:** Specially treated for extended lifespan.
- **Excellent Weldability:** Reduces fabrication time and costs.
- **Thermal Resistance:** Maintains properties even at high temperatures.
- **Eco-Friendly Production:** Manufactured with sustainable practices.



RATHI® POWERTECH® REBARS

Strength that Withstands Time



ISO 9001 :2015 | **ISO 14001:2015** | **BIS: 1786 Fe 500/ Fe 550/ Fe 550D**

OUR PRESTIGIOUS CLIENTS

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