

## Why choose EUROTHERM 7 STAR<sup>™</sup> TMT Saria by RATHI<sup>®</sup> ?



**REVOLUTIONARY DESIGN**



**DOUBLE RIB EXTRA GRIP**



**EXTRA STRENGTH**



**RATE PER PIECE**



**NO WASTAGE**



**GERMAN TECHNOLOGY**



**CUSTOMISED -MADE TO ORDER**

A product of SHRI RATHI<sup>®</sup> group

## INTRODUCING



## SARIYE का SUPERSTAR<sup>™</sup>

## UNIQUE FEATURES

- HIGHER BOND STRENGTH**  
Unique rib pattern ensures exceptional bonding with concrete and uniform strength throughout the Re-bar.
- HIGHER TENSILE STRENGTH**  
Higher tensile strength allows reduction in steel consumption during construction while maintaining safety.
- NO WASTAGE**  
Customised Made to Order EUROTHERM 7 STAR TMT Saria ensures no wastage of steel during construction.
- HIGHER WELDABILITY**  
Controlled Carbon and Manganese content has made the Re-bar fully weldable with no loss of strength at weld joints.
- HIGHER DUCTILITY**  
With elongation of up to 22% the Re-bar has superior ductility. This enables the concrete structure to have higher resistance to stresses created by lateral movement, specially during earthquakes.
- HIGHER BENDABILITY**  
Despite their extra strength the Re-bar can be bent easily and safely around mandrels.
- HIGHER CORROSION RESISTANCE**  
Superior manufacturing process ensures superior corrosion resistance.
- HIGHER SEISMIC RESISTANCE**  
The superior TEMP CORE TMT technology ensures a tough exterior and a flexible core. This unique combination of high tensile strength and exceptional ductility, with high fatigue strength makes the Re-bar resistant to stresses and seismic activity. Ideal for earthquake prone areas.
- HIGHER SAVING & PROFITABILITY**  
Thanks to its inherent higher strength, enhanced elongation, higher ductility and higher seismic resistance results in saving of up to 20% in steel consumption without compromising on safety.



A NEW STAR IS BORN

## RATHI EUROTHERM 7 STAR<sup>™</sup> TMT SARIA TECHNOLOGY

Using one of the world's best, trusted and globally accepted TMT manufacturing technology, TEMP CORE, RATHI EUROTHERM 7 STAR TMT Saria draws its strength from the computer controlled in-line TMT process of hot rolling and tempering during hot rolling. This process adds considerably higher strength and ductility to the finished material making it ideally suited for building strong structures that will last for ages to come.



- RATHI EUROTHERM 7 STAR TMT Saria promises you the strength of the best global technology.
- Process technology from TEMP CORE, Centre De Recherches Metallurgiques (CRM), Belgium.
- Technical assistance from HEPAP (Human Engineering for Environmental Processes and Production), Germany.
- Audited by Centre De Recherches Metallurgiques (CRM), Belgium to use their prestigious TEMP CORE grade name on Steel Re-bars.
- Certified by Bureau of Indian Standards (BIS) to manufacture Steel Re-bars as per IS: 1786/1985.
- Cones equipped with global quality certifications such as ISO 9001.



- NEW RIB PATTERN - MORE BONDING WITH CONCRETE
- HIGHER STRENGTH - LESS CONSUMPTION
- MADE TO ORDER - ZERO WASTAGE
- BOLD BY PIECE - ZERO THEFT
- READY TO USE - FASTER EXECUTION OF WORKS
- LESS TRANSPORT COST



## NOW SAVE UP TO 20%\*

Most steel Re-bars available are of Fe 415 grade. According to a study by the German Institute of Reinforcing Steel, theoretically the increase from Fe 415 to Fe 500 means improvement in strength and consequent reduction on consumption of steel up to 16%. Studies have indicated that the more the tensile strength lesser the consumption of steel.

In actual usage during construction related works, EUROTHERM 7 STAR TMT Saria by RATHI has demonstrated SAVING of up to 20% in steel consumption.

\*Saving in steel consumption when using EUROTHERM 7 STAR TMT Saria by RATHI instead of other steel bars.

## EUROTHERM 7 STAR<sup>™</sup> by RATHI<sup>®</sup> SPECIFICATIONS

### Mechanical Properties of EUROTHERM 7 STAR<sup>™</sup> TMT Saria by RATHI<sup>®</sup>

GRADE	EUROTHERM 7 STAR <sup>™</sup> 500-by RATHI <sup>®</sup>	Fe-500 as per IS : 1786
Yield Stress / Proof Stress Minimum (N/eq.mm)	540	500
Tensile Strength Minimum (N/eq.mm)	610	545
Elongation minimum	14%	12%

### Chemical Compositions of EUROTHERM 7 STAR<sup>™</sup> TMT Saria by RATHI<sup>®</sup>

GRADE	EUROTHERM 7 STAR <sup>™</sup> 500-by RATHI <sup>®</sup>	Fe-500 as per IS : 1786
Carbon (Maximum)	0.30%	0.30%
Sulphur (Maximum)	0.055%	0.055%
Phosphorus (Maximum)	0.050%	0.050%
Sulphur + Phosphorus (Maximum)	0.100%	0.100%
Manganese (Maximum)	0.4%	0.4%

### Product Range of EUROTHERM 7 STAR<sup>™</sup> TMT Saria by RATHI<sup>®</sup>

NOMINAL DIAMETER (mm)	NOMINAL WEIGHT (kg/meter) as per IS : 1786	WEIGHT RANGE (kg/meter) as per IS : 1786	EUROTHERM 7 STAR <sup>™</sup> by RATHI <sup>®</sup>
8	0.395	0.367 - 0.423	0.387 - 0.399
10	0.617	0.574 - 0.660	0.605 - 0.623
12	0.888	0.844 - 0.932	0.870 - 0.897
16	1.576	1.499 - 1.657	1.546 - 1.594
20	2.496	2.362 - 2.540	2.417 - 2.491
25	3.853	3.737 - 3.969	3.776 - 3.891
28	4.834	4.689 - 4.979	4.737 - 4.882
32	6.313	6.123 - 6.502	6.167 - 6.376
40	9.850	9.554 - 10.145	9.653 - 9.948

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