



CM/L - 2561050



IS 1786 : 2008



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The QTR / QTB Process

The Three Stage Process:

QUENCHING STAGE:

The first stage consists of a drastic water cooling, applied to the bar as it leaves the last finishing stand. The efficiency of the water cooling equipment used in this stage is extremely high to produce a very hard cooling on the rod surface, faster than the critical rate to form martensite, thus obtaining a surface layer of crude martensite.

TEMPERING STAGE:

In this second stage the bar leaves the water quenching line and it is exposed to air. The heat flow from the still hot core heats the quenched surface by conduction and the martensite formed in the first stage is thus subjected to self tempering which assures adequate ductility while maintaining high yield strength levels.

COOLING STAGE:

The third stage occurs on the roller conveyor and it consists of a semi-isothermal transformation of the still non transformed austenite at the bar core.

QTR / QTB Features

- Cost effective
- Higher strength
- Higher UTS/yield ratio (enhanced elongation)
- Higher fatigue strength
- Higher resistance to heat
- Excellent weldability
- Excellent ductility



Specifications - IS 1786 : 2008

Grades	Fe 415 / 415 D & Fe 500 / 500 D
Dimensions (mm)	8, 10, 12 in coils as well as in straight length & 16 to 32 in straight length
Mechanical properties & dimensional tolerance	Better than specification & industry norms
Weight of bundle	As per requirement of the customer



MITTAL QTR 500/500 D REBAR