

## THE STEEL SUPPLY COMPANY

### Tubing Material Specification ST52.3

Produced Per ASTM A513, Type 5

#### Chemical Composition Limits

Carbon	0.13-0.18
Silicon	0.15-0.30
Manganese	1.20-1.40
Phosphorous	0.025
Sulfur	0.010

#### Mechanical Properties of ST52.3

Tensile Strength, PSI	85,000 Min.
Tensile Strength Mpa	586
Yield Strength, PSI	75,000 Min.
Yield Strength Mpa	517
Elongation %	15
Hardness HRb	80
Impact Energy ft-lb.	20 (-4° F. 10 x 10mm)

\*Mpa is the abbreviation for Megapascals.

ST52.3 is commonly used in the U.S. Fluid Power Industry. This grade is easily formed, machined, and welded, and this carbon-manganese steel grade has exceptional impact energies.