

MILD STEEL TEE (MS TEE)

High-Strength Structural Steel & Industrial Pipe Fitting Specification Sheet

PRODUCT OVERVIEW

MS Tee (Mild Steel Tee) is a high-strength structural steel section widely used in construction, fabrication, engineering, and industrial applications. Manufactured from premium-quality mild steel, it provides excellent load-bearing capacity, durability, and weldability. The T-shaped profile makes it ideal for structural support, framework, bracing, and fabrication projects.

Available in various sizes, thicknesses, and lengths, MS tees offer precise dimensions, a smooth finish, and reliable performance. They are easy to cut, drill, weld, and machine, making them a preferred choice across commercial and industrial sectors.

TEMPERATURE RANGE

-20°C to 425°C

Handles extreme operational heat & cold

PRESSURE RATING

Up to 120 Bar

Low to medium pressure applications

DIMENSION RANGE

1/2" to 24"

Precise tolerance within ±1 mm

PERFORMANCE & SPECIFICATIONS

- Versatile Performance:** Engineered to handle a wide operating temperature range from -20°C to 425°C and pressures up to 120 bar (depending on wall thickness). Compatible with standard pipe schedules under ASME/ANSI B16.9 and B16.28.
- Reliable Construction & Finish:** Produced via seamless, welded, or hot-rolled manufacturing methods for optimum structural integrity. Available in black, brown, or painted mill finish.
- Corrosion Protection:** Offers moderate natural corrosion resistance in mill finish, which can be easily enhanced through painting or specialized protective coatings.
- Flexible Packaging & Delivery:** Packaged loose, bundled, or in protective wooden boxes tailored for safety and convenience during transportation.

TECHNICAL SPECIFICATIONS SUMMARY

PARAMETER	SPECIFICATION DETAILS
Material Grade	IS 2062, ASTM A234, EN10253 (Mild / Carbon Steel)
Design Standards	ASME / ANSI B16.9, ASME / ANSI B16.28
Size Range	1/2 Inch to 24 Inch Diameter
Connection Type	Butt Weld Ends
Manufacturing Process	Hot Rolled, Seamless, or Welded
Finish Options	Black Mill Finish, Brown, or Custom Painted / Coated
Dimensional Tolerance	±1 mm Precision Control

FREQUENTLY ASKED QUESTIONS (FAQS)

Q: How are Mild Steel Tee fittings installed in a piping system?

A: Mild Steel Tee fittings are designed for butt weld connections, meaning the ends of the pipes and tee are welded together, creating a strong and leak-resistant joint. Proper welding technique ensures optimal performance and safety in the piping system.

Q: What manufacturing processes are used for these tees and how do they impact quality?

A: These tees are manufactured via hot rolled, seamless, or welded processes. Seamless and welded options provide high strength and consistency, while hot rolling allows for cost-effective production and reliable mechanical properties. All manufacturing methods ensure accurate dimensions and good weldability.

Q: When should I consider using a Mild Steel Tee for my project?

A: You should use a Mild Steel Tee when you need to join three pipes at a 90-degree angle in plumbing, industrial, or construction systems that operate within a temperature range of -20°C to 425°C and require moderate corrosion resistance and durability.

Q: What standards and grades do these Mild Steel Tee fittings comply with?

A: The fittings comply with industry standards such as ASME/ANSI B16.9, B16.28, and are manufactured from grades like IS 2062, ASTM A234, and EN10253, ensuring compatibility, safety, and reliability in a wide range of applications.

Q: Where can these tees be used?

A: Mild Steel Tees are versatile and suitable for plumbing, construction, and industrial pipe fitting applications, especially where joining pipes at a 90-degree angle is needed and the system operates under low to medium pressure.

Q: What are the benefits of choosing a Mild Steel Tee with a butt weld connection?

A: Butt weld connections offer strong, leak-proof joints that handle pressure and temperature changes effectively. This connection also enables smooth internal pipe transitions, reducing turbulence and pressure drop.

Q: How can the corrosion resistance of these fittings be increased?

A: While the fittings offer moderate corrosion resistance in their plain or mill finish form, they can be painted or coated for enhanced protection in more aggressive or moist environments.