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70S-3

MILD STEEL MIG WIRE

◆ INTRODUCTION

AUFHAUSER 70S-3 is a silicon and manganese deoxidized wire used for mild and low alloy steel general purpose fabrication. A well balanced silicon and manganese content permits its use with CO₂, Argon-Oxygen mixtures, or mixtures of the two. This wire may be used for short-circuiting arc (dip-transfer), buried arc, as well as spray transfer arc processes. AUFHAUSER 70S-3 produces quality weld with rimmed steels, better welds on killed steels. It yields an almost slag-free deposit, which does not require cleaning for many applications thereby providing low plate preparation costs, good bead appearance and welder satisfaction.

◆ APPLICATIONS

- Welding steels with dirty or rusty surface
(UNS numbers K02600, K02801, K02001, K02700)
- Single-pass welding of killed, semi-killed, and rimmed steels, but may be used for some multi-pass applications.

◆ CHEMICAL COMPOSITION

(AWS A5.18, Typical)

	Carbon	Manganese	Silicon	Phosphorus	Sulfur
Nominal	.10	1.15	.60	.025	.035

Note: All values are maximum percentage, unless shown in range.



◆ PHYSICAL and MECHANICAL PROPERTIES

Tensile Strength:	81,000 psi
Yield:	67,900
Elongation, min. %:	29
Average Impact Strength%:	29

◆ SPECIFICATIONS MEET or EXCEED

- ANSI/AWS A5.18 (ER 70S3)

◆ STANDARD SIZES AND DIAMETERS

Diameters
 0.23", 0.30", 0.35", 0.45"

Properties were determined with 100% CO₂ shielding gas.