

Tru-Core[®] CORED WELDING WIRES

TYPICAL MECHANICAL PROPERTIES (as welded)

		TENSILE STRENGTH KSI	YIELD STRENGTH KSI	ELONGATION (% IN 2")	CVN @ -20°F (-29°C)
FC 70T	100% CO ₂	88.8	75.3	28	27.3 ft-lbf
	AWS/ASME	70-95	58 (min.)	22 (min.)	20 ft-lbf
FC 71T	100% CO ₂	83.6	72.7	29	54.3 ft-lbf
	75% Ar /25% CO ₂	80.8	68.4	29	41.6 ft-lbf
FC 71T-12C	AWS/ASME	70-95	58 (min.)	22 (min.)	20 ft-lbf
	100% CO ₂	84.3	75.8	30	71.3 ft-lbf
FC 71T-12M	AWS/ASME	70-90	58 (min.)	22 (min.)	20 ft-lbf
	75% Ar /25% CO ₂	83.5	72.6	29	79.6 ft-lbf
FC 71T-AG	AWS/ASME	70-90	58 (min.)	22 (min.)	20 ft-lbf
	75% Ar /25% CO ₂	84.2	74.1	28	62.6 ft-lbf
FC 71T-CG	AWS/ASME	70-95	58 (min.)	22 (min.)	20 ft-lbf
	100% CO ₂	80.5	69.1	33	59.6 ft-lbf
FC 81T-Ni1	AWS/ASME	70-95	58 (min.)	22 (min.)	20 ft-lbf
	100% CO ₂	85.9	76	29	77.7 ft-lbf
FC 81T-Ni1M	AWS/ASME	80 – 100	68 (min.)	19 (min.)	20 ft-lbf
	75% Ar /25% CO ₂	99.1	88.3	26	55.7 ft-lbf
MC 70C	AWS/ASME	80 – 100	68 (min.)	19 (min.)	20 ft-lbf
	75% Ar /25% CO ₂	81.5	66.9	32	46.7 ft-lbf
	90% Ar /10% CO ₂	83.9	70.8	30	32.6 ft-lbf
					CVN @ -50°F (-45°C)
MC 80C-Ni1	95% Ar /5% O ₂	86	73.8	29	38.3 ft-lbf
	75% Ar /25% CO ₂	83.2	70.7	32	35.7 ft-lbf
	AWS/ASME	80 (min.)	68 (min.)	24 (min.)	20 (min.)
					CVN @ -60°F (-51°C)
MC 110C-K4	95% Ar /5% O ₂	111.7	101	18	26.7 ft-lbf
	AWS/ASME	110 (min.)	98 (min.)	15 (min.)	20 (min.)