

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