

## Characteristics and Applications:

TWE-707-O is a self-shielded flux cored wire designed for high penetration welding. It is suitable for flat, horizontal and downhill positions on DCEN polarity. Excellent performance on X-ray inspection, and desulfuration reduces cracking in welding thick plates, constrained joints and medium-carbon steel. The typical applications of TWE-707-O are general fabrication and structural weldment where high deposition with good penetration and / or fast travel speed is needed. Available positions are flat weld, horizontal weld and vertical down ones of welding for fillet weld and lap joint.

## Notes on usage:

1. DC(-) polarity is recommended.
2. TM-70C or TWE-711 are recommended when impact toughness of weld metal is essential.
3. Keep the product dry, while it is stored or delivered.

## Typical chemical composition of weld metal (wt%):

C	Mn	Si	P	S	Al
0.29	0.45	0.10	0.010	0.005	1.45

## Typical mechanical properties of weld metal:

Yield strength MPa(ksi)	Tensile strength MPa(ksi)	Elongation %
453(66)	600(87)	25

## Welding position:

## Sizes and recommended parameter range ( DC - ):

Stick out: 40-60 (mm)

Position	Diameter (mm)
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