

Premium Open Arc Wire for Joining and Protective Cladding **TeroMatec**® **DA688**

- High deposition rate increases efficiency
- Ultra high strength for maximum crack resistance
- Offers superior resistance to spalling when used as a cushion layer
- Good for plain carbon and medium-to-high alloy steels

TeroMatec[®] OA 688

TeroMatec OA 688 is a high chromium-nickel alloy formulated for joining plain-carbon and medium to high alloy steels when base metal cracking is a problem. When used as a cushion layer, it offers superior spalling resistance under impact.

TECHNICAL DATA

Typical Values		
Tensile Strength:	105,000 psi (724 MPa)	
Yield Strength:	84,000 psi (579 MPa)	
Elongation (1=5d):	26%	
Polarity:	DC (+) Electrode Positive	

	AMPERAGE RANGE	VOLTAGE RANGE	STICK-OUT
7/64" (2.8 mm)	250-340	26-30	2.5" +/- 1/4"

Note: parameter adjustments will be needed depending upon the size, weight, and shape of the part. For optimum wear resistance, keep to the low end of the amperage and voltage ranges.

PROCEDURE FOR USE

Preparation: Remove all contaminants, particularly oil & grease. Lightly grind surface to remove superficial oxides. Preheat according to the base metal make-up and potential to air harden. For tool steel surfacing use the recommended preheat & interpass temperatures for the grade and type.

Note: do not preheat 14% manganese steel.!

Technique: Always use the lowest practical amperage range to minimize dilution. Use a circular weaving motion to obtain a compact deposit. De-slag. Second and subsequent passes should tie-in to the weld deposit toe so as to avoid interpass "valleys". Adopt a balanced welding technique to minimize base meat overheating.

Post Welding: For air-hardening steels slow cool using available insulating materials. For less sensitive base metals, slow cool out of drafts.

TYPICAL APPLICATIONS

Cladding for cement clinker hammers. As a cushion layer. Recommened for joining manganese steel castings to fabricated steel assemblies. Welding wear plate, chassis, highly stressed frames and conveyor flights. Also for large-size tool and die repairs.



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