

# Premium Open Arc Joining and Build-up Wire for Low Carbon & Low Alloy Steels TeroMatec®

# OA 2020

- High deposition rate increases efficiency
- Does not require costly shielding gas
- Deposits are high in strength and ductility
- Excellent for single and multi-pass applications

## TeroMatec<sup>®</sup> OA 2020

TeroMatec OA 2020 is formulated to be the ultimate joining and build-up wire for low carbon and low alloy steels. It is for both single and multi-pass welding applications. The smooth arc provides good sound deposits high in strength and ductility. An excellent choice when fit-up is poor.

## TECHNICAL DATA

ing t	Typical Val	ues			
	Tensile Stre	ngth:	88,000 psi		
	Elongation (1=5d):			Minimum 25%	
	Power Source Type:			Constant Voltage and Integrated Wire Drive	
	Positions:			Flat and Horizontal	
AMETER	POLARITY	VOLTS	AMPS	WFS (IPM)	STICK OUT
" (1.6 mm)	DCEN	17-20	160-210	70-110	3/4"
" (2.4 mm)*	DCEP	28-32	250-450	125-275	2 1/2"
" (2.8 mm)	DCEN	24-32	320-550	100-250	1 1/2"

\*Note: 3/32" diameter uses DC electrode positive polarity.

**CAUTION:** Although a 2-roll wire drive assembly will work the optimum for maintaining arc voltage stability and consistent and smooth wire feeding is a serrated 4-roll drive assembly. Smooth drive rolls are not recommended!

### **PROCEDURE FOR USE**

**Step 1:** Remove all "old" cracked or spalled weld metal down to a sound base.

DIA 1/16' 3/32" 7/64'

**Step 2:** TeroMatec OA 2020 is unlimited build-up on mild and low-alloy steels.

**Step 3:** Preheat the part to be hardfaced depending on its air hardenabilty potential and/or carbon level. For most constructional steels a nominal preheat of 150°F is suggested and for medium alloy steels, approximately 250°F.

**Step 4:** After checking that the welding conditions are optimal by testing on scrap metal, position the gun head at a 70-80° angle and use a "pull" technique. For fully automated welding such as hardfacing cement crusher rolls, the wire should exit at about a 10° lagging angle from top dead center. Using this technique will assure a smooth and regular weld deposit profile with the optimum level of fusion. *Note: If welding is interrupted and the part cools to room temperature, you must reheat to the original preheat temperature. For hardenable steels, slow cooling with silicone blankets, vermiculite or other heat-retardant material is advised.* 

**Step 5:** For most applications, other than a superficial grind, finishing is not required. If some level of profiling is needed, grinding or machining can be used for more precise shaping.

#### TYPICAL APPLICATIONS

#### **APPLICATIONS**

Excavators - Bulldozers Earthmoving Equipment Farm Equipment Buckets Ship Decking Debarker Drums INDUSTRY

Quarries, Construction Sand, Stone, Mining Agriculture Quarries, Mining Shipping Pulp & Paper



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