# → STAINLESS STEEL ELECTRODES

## **PRODUCT DATA SHEET**

## AFROX E3CR12

Afrox E3CR12 is a heavily coated 13% chromium alloyed electrode suitable for all-position welding of 13% chromium ferritic steels. The deposited weld metal is sound with a low inclusion content and exhibits good toughness at temperatures down to  $-20^{\circ}$ C. The electrode features a smooth, stable, low spatter arc on DC+. Weld bead appearance is good with a

#### **CLASSIFICATIONS - MIG**

AWS	A5.4	E410NiMo (chromium content modified)
DIN	8556	E13 4 B 26 120
BS EN	1600	E13 4

### CHEMICAL ANALYSIS

% Carbon	0.04 max.
% Manganese	0.5 - 1.0
% Silicon	0.45 max.
% Chromium	12.0 - 13.0

#### TYPICAL MECHANICAL PROPERTIES ALL WELD METAL

900 - 1150 MPa	
700 MPa	
10 - 15%	

#### **PACKING DATA**

#### (DC <sup>+</sup> or AC (70 OCV min)

Diameter (mm)	Current (A)	Item Number	Pack Mass (Kg)
3.15	80-130	075-843	3 x 5
4.00	125-160	075-844	3 x 5

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smooth uniform ripple. The slag is readily removed from the weld surface in all positions. Afrox E3CR12 has been especially developed for the welding of 3CR12 material. The weld metal has similar corrosion properties to that of 3CR12 without overalloying, i.e. in contrast to the 300 series electrodes.

% Nickel	4.0 - 5.0	
% Molybdenum	0.40 - 0.70	
% Sulphur	0.020 max.	
% Phosphorous	0.025 max.	