

# PRODUCT DATA SHEET

## Tube Alloy 258-O

Tube Alloy 258-O is a self-shielded wire depositing a martensitic alloy steel of the H-12 tool steel type. It has excellent resistance to adhesive metal-to-metal wear as well as good resistance to impact and abrasion. It will maintain its hardness up to 500°C.

### Applications

Tube Alloy 258-O is suitable for use on coupling boxes, dragline chains, kiln trunnions, mill guides, spindles and wobbler ends.

### Classifications

DIN	8555	MF6-GF-55-G
-----	------	-------------

### Typical Chemical Analysis (All weld metal)

% Carbon	0,45	% Chromium	6,0
% Manganese	1,4	% Molybdenum	1,5
% Silicon	0,8	% Tungsten	1,5

### Typical Mechanical Properties

Abrasion Resistance	Good
Impact Resistance	Good
Machinability	Grind only
Flame Cutting	Difficult
Microstructure	Martensitic
Magnetic	
Heat treatable and forgeable	

### Typical Hardness

Layer	1020 Steel	4130 Steel
1	49 HRc	51 HRc
2	53 HRc	54 HRc
3	57 HRc	57 HRc

### Welding Data

(DC+)

Diameter (mm)	Current		Electrode Stick Out	Deposition Rate (kg/hr)
	Amps (A)	Volts (V)		
1,2	160 - 190	24 - 25	13 - 25	3,2
1,6	275 - 350	24 - 27	23 - 38	4,5
2,8	400 - 450	26 - 29	38 - 51	6,4

### Packing Data

Diameter (mm)	Spool Mass (kg)	Spool Type	Item Number
1,2	11,3	Spool	W077070
1,6	11,3	Spool	W077077
2,8	27,2	Coil	W077079

The information contained or otherwise referenced herein is presented only as typical without guarantee or warranty, and Afrox expressly disclaims any liability incurred from any reliance therein. No data is to be construed as recommended for any welding condition or technique not controlled by Afrox.

For more information contact the Afrox Customer Service Centre Tel: 0860 02 02 02  
E-mail: [customer.service@afrox.linde.com](mailto:customer.service@afrox.linde.com) Website: [www.afrox.com](http://www.afrox.com)

