

## Tube Alloy A43-O

Tube Alloy A43-O is a self-shielded wire depositing a premium high chromium-columbium carbide alloy. It can be used on components subject to severe high and low stress abrasive

wear and moderate impact. It can also be used where high temperature up to 675°C wear resistance is required. The deposit will stress-relief check crack readily.

### APPLICATIONS

Tube Alloy A43-O is suitable for use on Augers, bucket lips and teeth, coal feeder screws, coal pulveriser rolls and tables, coke chutes, coke pusher shoes, conveyor screws, dredge cutter heads and teeth, dredge pump inlet nozzles and side plates, fan

blades, grizzly bars and fingers, muller tyres, paving agitator screws, pipeline ball joints, pug mill paddles, scraper blades, sheep's foot tampers and sizing screens.

### SPECIFICATION

DIN 8555 MF10-GF-60-G (nearest)

### TYPICAL WELD METAL DATA

%C	%Mn	%Si	%Cr	Cb
5.5	0.2	1.0	22.0	6.5

Abrasion resistance	Excellent
Impact resistance	Poor
Machinability	Grind only
Flame cutting	Cannot be flame cut
Thickness	2-3 layers
Microstructure	A combination of large chromium carbides and small fine columbium carbides in an austenite/eutectic carbide matrix
Maintains hot hardness up to 675°C	

### TYPICAL HARDNESS RANGE HRC

Layer	1020 Steel	12-14 Mn Steel
1	50-60	46-50
2-3	60-64	54-58

### RECOMMENDED WELDING DATA

Tube Alloy A43-O can be used on DCEP

Dia mm	Current	Volts	Electrode Stickout	Deposition Rate Kg/hr
1.6	275-350	24-27	25-38	4.5
2.0	300-400	25-28	25-38	5.2
2.8	400-450	26-29	38-51	6.4

### PACKING DATA

Dia mm	Item Number	Spool Mass Kg	Spool Type
1.6	077126	11.34	Spool
2.0	077127	27.2	Coil
2.8	077128	27.2	Coil

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