

# ARCTEC® W 5070



## GENERAL CHARACTERISTICS:

ARCTEC® W 5070 is a Chromium-Niobium alloy designed to resist severe abrasive wear at service temperatures up to 450°C. Deposit is machineable by grinding only and cannot be flame cut.

## APPLICATIONS:

ARCTEC® W 5070 deposits retain good hardness at elevated temperatures (450°C). Deposit thickness should not exceed 3/8" in 2-3 layers. Typical applications include: augers, sintering plant equipment, bucket teeth, hammer mill equipment, screw conveyors, coal screens and other wear surfaces subject to severe abrasion.

## MECHANICAL PROPERTIES:

Typical Hardness As Deposited  
61-63 RC

This alloy is composed of the following elements:

C Mn Si Cr Nb Fe

## OPERATING PARAMETERS:

WELDING PROCESS: FCAW

POLARITY: DC Reverse

SHIELDING GAS: Not required

Operating Range			
Diameter	Stickout +/- .25"	Amps	Volts
1/16"(1.6 mm)	35-40 mm	160-260	20-26
3/32"(2.5 mm)	35-40 mm	280-340	24-27
7/64"(2.8 mm)	35-40 mm	320-400	25-28

## STANDARD SIZE AND PACKAGING:

Size			Packaging
1/16" 1.5mm			15Kg Spool
1/16" 1.5mm	3/32" 2.5mm	7/64" 2.8mm	25Kg Coils

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Subject to change without notice

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