ARCTEC® SURECUT 700

a quality welding alloy

GENERAL CHARACTERISTICS:

ARCTEC® SURECUT 700 is a composite hard facing rod for use with the oxy-fuel brazing process. This rod consists of a sintered tungsten carbide embedded in a high strength nickel-silver matrix. All of the tungsten carbide hard metal has a definite, uniform triangular shape that provides superior cutting action.

APPLICATIONS:

ARCTEC® SURECUT 700 is particularly suited for hard facing of oilfield drill bits, drill stems, fishing tools, stabilizers and other applications in the mining industry subject to severe abrasion and moderate impact.

WELDING PROCEDURE:

Clean the weld zone free of oil, grease, rust and other contaminants by grinding if necessary. Apply with oxy-acetylene torch using a neutral flame. This will allow the operator to properly place the tungsten carbide particles before the matrix freezes. Use extreme care to avoid overheating the tungsten carbide material. Preheat of large pieces is recommended prior to starting the brazing process. If additional matrix is required use **Arctec 1050 FC**. This material is available in 1/8" (3.20mm) and 3/16" (5.00mm) diameters. Allow the weld deposit and surrounding area to cool slowly.

CHEMICAL COMPOSITION:

The sintered tungsten carbide particles consists of Co, TiC, TaC and WC

MECHANICAL PROPERTIES:

Typical Hardness	
Matrix:	40-45 RC
Carbide:	2950 HV

OPERATING PARAMETERS:

WELDING PROCESS: OFB

Melting Temperature: 1050^{0}C (1920^{0}F)

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