Technical Data Sheet 344 Electrode and 344T TIG Wire



Cronatron_



Overview

The High-Speed Tool Steel Alloy

Developed specifically to restore cutting edges to dies, augers, shears, drilling tools, knives and blades of all types. This highly specialized alloy can replace worn, broken or damaged edges to a "like-new" condition in minutes. 344 Electrode is an Equagrain[™] alloy formulation that results in deposits of high purity that achieve the ultimate in grain structure to provide the desired characteristics of hardness, toughness and dimensional stability. 344 Electrode is a high-chrome, moly, tungsten, vanadium alloy that responds to HSS (Series M2) heat-treating procedures.

Features/Benefits	 Reduces cutting tool replacement costs dramatically Super-hard deposit retains sharp edge longer High resistance to heat; up to 1,150°F (620°C). Cutting or drilling tools can be made using low-cost, easily machinable steel and overlaying with 344 Resists high shock conditions better than tungsten carbide No heat-treating required 		
Applications	 Re-edging dies Paper-cutter blades Punches and piercing tools Drills and augers 	Lathe cutting toolsMetal shearsChisels	
Method of Application	Arc weld AC or DC reverse polarity (elec	ctrode); DC straight (TIG wire)	
Identification	Printed electrode; Flagged TIG wire		



Direction	s for Use	Clean materials to be restored and resurfaced of grease, scale or loose particles. Preheat large or complex sections 500°F to 800°F (260°C to 425°C), or according	Matron MA LAWSON BRAND
		to base-metal requirements. To obtain best results, deposit weld metal along 2" to 3", peen to relieve stress and continue same process until completed. Remove slag between beads. Postheating on large sections is recommended. For tempering curves and other additional information refer to Product Information Report PIRWE012.	
Technical	Specifications	Hardness: Rc 59 to Rc 63 as welded; Rc 63 to Rc 64 as tempered	
Technical	Tips	Strike an arc on a piece of scrap metal and transfer the arc to the weld area.	