

# POSTLE INDUSTRIES, INC.



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## Data Sheet

# POSTALLOY® 14

### Description

**POSTALLOY 14** is a self-fluxing, oxy-acetylene hardfacing alloy that is applied below the fusion temperature of the base metal. It may be used on carbon steels, alloy steels, nickel alloys and cast iron. **POSTALLOY 14** flows out easily and may be applied in extremely thin layers. Deposits are non-sparking, non-magnetic, and non-heat treatable.

**Excellent cold and hot abrasion resistance** - Maintains a high level of hardness up to 1200°F (649°C).

**Outstanding for metal-to-metal wear resistance** - Deposits take on an extremely high polish, and will resist galling and freezing when in contact with other metals.

**Good Corrosion Resistance** - **POSTALLOY 14** will provide corrosion protection that is equal to most stainless steels and Inconel alloys..

### Specifications

#### Hardness

Room Temperature .....	59 Rc
800°F (427°C).....	55 Rc
1000°F (538°C).....	50 Rc
1200°F (649°C).....	45 Rc

### Applications

Valve seats	Cement and paper pulp mixing blades
Pistons	Forming dies and wire drawing dies
Cams	Overlaying rails
Pump shafts and bushings	Guides and racks in high temperatures
Overlaying edges of augers	Industrial knives
Screws	Cutters and shredders
Impellers	

### Welding Procedure - Oxy-Acetylene

Clean weld area and grind rough edges smooth. Self-fluxing on most applications. For difficult base metals use **POSTALLOY 91-D (dry) FLUX** on areas to be overlayed. On cast iron use with **POSTALLOY 54 FLUX**. Heat with oxy-acetylene torch using a neutral flame. When a dull red color is reached, begin applying alloy. Avoid overheating. On certain high alloyed metals use a slightly carburizing flame to increase fluidity. Cool slowly. Grind to shape.

### Availability

**DIAMETER:**                      1/8 (3.2mm)                      3/16 (4.8mm)

Available with additions of tungsten carbide blended into the matrix - **Postalloy 14TC**  
Also available as a semi-automatic wire - **Postalloy 2814-SPL**