

# Metcoloy® #2 Wire

**Technical Bulletin #10-023** 



# Metcoloy® #2 Wire

Metcoloy #2 is a high chrome stainless steel wire manufactured exclusively for flame spraying. It has excellent wearing qualities and fair corrosion resistance. It is the best all-purpose steel for machine element work.

Metcoloy #2 is certifiable as meeting Department of Defense specification MIL-W-6712B, Table I, Stainless Steel, chrome.

Metcoloy #2 can be sprayed with any Metco metallizing gun using any fuel gas.

# **Applications**

Use Metcoloy #2 wherever a hard coating is required, even where corrosion resistance is not necessary. It has high strength, high elongation and low shrink, with practically no tendency to crack on shafts. It has been used successfully on machine elements such as journal surfaces of all kinds, cylinder liners, pistons, valve stems, pump plungers, hydraulic rams, crankshaft bearings and many others.

# **Typical Composition**

.35%
.02%
.02%
.35%
.5%
13%
.5%
Balance

#### **Physical Properties**

Melting point: 2600° F. (approx.)

Coating finish, ground: Good Density: gm/cc 6.74

Typical macrohardness: Rc 33
Shrink: in./in. .0018
Coating tensile strength - psi: 40,000



# **Spraying**

Parameters for spraying Metcoloy #2 are shown in the Metco Gun Instruction Manual.

# **Finishing**

Metcoloy #2 may be ground, or machined at low speed with carbide tools. Use the parameters in the **Flame Spray Handbook**, Vol. I, under "Finishing".

# **Hazards**

Chromium alloy fumes are extremely hazardous. Complete respiratory protection must be provided for all personnel wherever chromium alloys are being sprayed.

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