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Small Parts 30360

O1 Tool Steel Rectangular Bar User Manual

Model: 30360

1. Product Overview

The O1 Tool Steel Rectangular Bar is a precision-ground material designed for various industrial and scientific applications. It adheres to ASTM A681 and SAE J437 specifications, ensuring consistent quality and standard tolerance. This tool steel grade offers enhanced machinability compared to A2 tool steel and requires oil hardening for optimal performance.



Image: A single O1 Tool Steel Rectangular Bar, showcasing its precision-ground surface and uniform dimensions.

Key Features:

- O1 tool steel offers superior machinability compared to A2 tool steel.
- Requires oil hardening for optimal performance.
- Meets ASTM A681 and SAE J437 specifications for quality assurance.
- Precision ground to achieve exact shape and size.
- Features a standard tolerance for consistent application.

2. Usage Guidelines

2.1. Preparation and Handling

Before any processing, ensure the bar is clean and free from any contaminants. Handle with appropriate safety gear, such as gloves, to prevent injury and maintain material integrity. Secure the bar properly in a vise or fixture to prevent movement during machining operations.

2.2. Machining and Fabrication

O1 tool steel is known for its good machinability, allowing for various cutting, shaping, and finishing processes. Standard machining practices for tool steel should be followed. Consider the material's properties, such as

hardness and toughness, when selecting tools and cutting parameters.

2.3. Heat Treatment

This O1 tool steel grade requires oil hardening. The hardening process can be performed at relatively low temperatures, which contributes to good dimensional stability of the finished part. Consult specific heat treatment guides for precise temperature and quenching procedures to achieve desired hardness and properties.

2.4. Storage and Care

To prevent surface damage and corrosion, store the O1 tool steel bar in a dry environment. Applying a thin layer of protective oil or wax can help prevent rust, especially during long-term storage. Avoid direct contact with moisture or corrosive substances.

3. Specifications

Attribute	Value
Package Dimensions	18.5 x 1.1 x 1.1 inches; 5 Pounds
Item model number	30360
Date First Available	January 28, 2010
Manufacturer	Precision Brand Products, Inc.
ASIN	B0036TGZJC
Best Sellers Rank	See Top 100 in Industrial & Scientific

4. Safety Information

When working with O1 Tool Steel, always prioritize safety. Wear appropriate personal protective equipment (PPE), including safety glasses, gloves, and protective clothing. Ensure proper ventilation if heat treating or grinding. Follow all local safety regulations and guidelines for metalworking.

5. Warranty and Support

This product is subject to a 30-day refund/replacement return policy. For specific warranty details, technical support, or any inquiries regarding the O1 Tool Steel Rectangular Bar, please contact the manufacturer, Precision Brand Products, Inc., or the seller, Hugo's Online, directly through their official channels. Keep your purchase receipt for any warranty or return claims.

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