

# OIL HARDENING DRILL ROD ROUND - OIL HARDENING DRILL ROD 1/2" GAUGE .5000 DEC. EQUIV. ROUND

[Gunsmith Tools & Supplies](#) > [Small Hardware](#) > [Metal Stock](#)

## Indispensable In The Gun Shop For Parts, Tools & Repairs

O-1 OIL HARDENING DRILL ROD ROUND Carbon - .95% Manganese - 1.20%

Silicon - .25% For  $\frac{1}{4}$ " round and larger, we carry oil hardening drill rod rather than water hardening. The O-1 in this size range is characterized by good machineability, smooth finish as well as superior dimensional stability and excellent hardening characteristics. We recommend it for use in dies, tools, parts, and punches. Excellent for general use in the shop. HARDENING: Heat slowly to 1475° F. - 1525° F. If a controlled furnace is not available, use 1500° Tempilaq. Hold at this temperature for a few seconds then quench in a light quenching oil. TEMPERING: Temper immediately. The following hardness table is for a one hour draw after oil quenching at 1500° F. Degrees F. Rockwell C Hardness As Hardened 63 - 65 300° 63 - 64 400° 61 - 62 500° 58 - 60 600° 54 - 56 700° 51 - 53 800° 46 - 48 900° 43 - 45



## Attributes

- Name: [OIL HARDENING DRILL ROD 1/2" GAUGE .5000 DEC. EQUIV. ROUND](#)
- Manufacturer: [BROWNELLS](#)
- Product no.: 080541500
- Mfr. No.: NONE
- Material: Steel
- Delivery weight: 0.476kg
- Shipping height: 8mm
- Shipping width: 33mm
- Shipping length: 472mm

## Item details

Made in USA

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# Safety Instruction Guide for OIL HARDENING DRILL ROD ROUND

## Introduction

Thank you for choosing the OIL HARDENING DRILL ROD ROUND. This guide provides essential safety information and instructions to ensure the safe use of this product. Please read this guide carefully before using the drill rod to avoid any potential hazards.

## General Safety Guidelines

- Product Safety:** This product is designed for safe use in various applications. Ensure that you follow all safety instructions to mitigate risks.
- Enhanced Recalls:** Stay informed about any product recalls. You can find recall notices and remedies for dangerous products through official channels.
- Online Shopping:** If purchased online, ensure that the seller complies with safety requirements similar to those in physical stores.
- Special Consumer Focus:** Extra care should be taken when using this product around vulnerable groups, including children.
- EU Contact Point:** For safety inquiries, refer to the contact information provided by the retailer or manufacturer.
- Rapid Alerts:** Stay updated on unsafe products through the EU's Safety Gate platform.

## Specific Safety Precautions for Use

### • Hazard Identification:

- The drill rod can become extremely hot during the hardening process. Handle with care to avoid burns.
- Sharp edges may be present on the drill rod. Use protective gloves when handling.
- Ensure proper ventilation when heating the drill rod to avoid inhaling fumes.

### • Avoiding Hazards:

- Always wear appropriate personal protective equipment (PPE), including gloves and safety goggles.
- Keep the work area clean and free of obstructions to prevent tripping or accidents.
- Do not use the drill rod if it shows signs of damage or wear.

## Instructions for Installation and Usage

### • Preparation:

- Ensure you have the necessary tools and equipment for safe handling.
- Read and understand the hardening and tempering instructions before starting.

### • Hardening Instructions:

- Heat the drill rod slowly to a temperature range of 1475°F - 1525°F.
- If you do not have a controlled furnace, use 1500° Tempilaq.
- Hold the drill rod at this temperature for a few seconds.
- Quench the drill rod in a light quenching oil immediately after heating.

- **Tempering Instructions:**

- Temper the drill rod immediately after quenching.
- Refer to the following hardness table for a onehour draw after oil quenching at 1500°F:

Degrees F	Rockwell C Hardness		As Hardened	63 65	300°	63 64	400°	61 62	500°	58 60	
600°	54 56	700°	51 53	800°	46 48	900°	43 45				

## **Disposal Instructions**

- Dispose of any waste materials in accordance with local regulations.
- Ensure that the drill rod is cooled down before disposal.
- Do not dispose of in regular household waste if it is contaminated or hazardous.

## **Contact Information for Further Support**

For any inquiries or support related to the OIL HARDENING DRILL ROD ROUND, please refer to the contact information provided by the retailer or manufacturer.

Thank you for following these safety instructions. Your adherence to these guidelines ensures a safer working environment.

# About Us

## Brownells Austria

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