

## Einhell Schweißdraht Stahl 0.8mm

# Einhell Welding Wire 0.8mm for Gas Welding Machines (5 kg)

## User Manual

### 1. INTRODUCTION

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This manual provides comprehensive instructions for the safe handling, installation, and use of the Einhell 0.8mm Steel Welding Wire. This product is designed for use with compatible gas welding machines, specifically the EURO SGA 170 and EURO SGA 190/3 models, to ensure optimal performance and safety. Please read this manual thoroughly before using the welding wire to prevent injury and ensure proper operation.

### 2. SAFETY INSTRUCTIONS

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Welding operations involve inherent risks. Adhere to all safety precautions to prevent accidents and injuries. Always consult the safety manual of your welding machine for additional guidelines.

- **Personal Protective Equipment (PPE):** Always wear appropriate PPE, including a welding helmet with suitable shade, flame-resistant clothing, welding gloves, and safety shoes.
- **Ventilation:** Ensure adequate ventilation in the work area to disperse welding fumes and gases. Use local exhaust ventilation if necessary.
- **Fire Hazards:** Keep flammable materials away from the welding area. Have a fire extinguisher readily available. Welding sparks can travel considerable distances.
- **Electrical Safety:** Ensure your welding machine is properly grounded and all electrical connections are secure. Never operate welding equipment in wet conditions.
- **Eye and Skin Protection:** Welding arcs emit intense ultraviolet and infrared radiation, which can cause severe burns to eyes and skin. Never look at the welding arc without proper eye protection.
- **Handling the Wire:** The welding wire itself is not hazardous under normal handling. However, sharp edges on the spool or wire ends can cause minor cuts. Handle with care.

### 3. PRODUCT OVERVIEW

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The Einhell 0.8mm Steel Welding Wire is a high-quality consumable designed for MIG/MAG welding processes. It comes on a 5 kg spool and is made of steel, suitable for welding various steel materials. Its precise diameter ensures consistent wire feeding and stable arc performance.

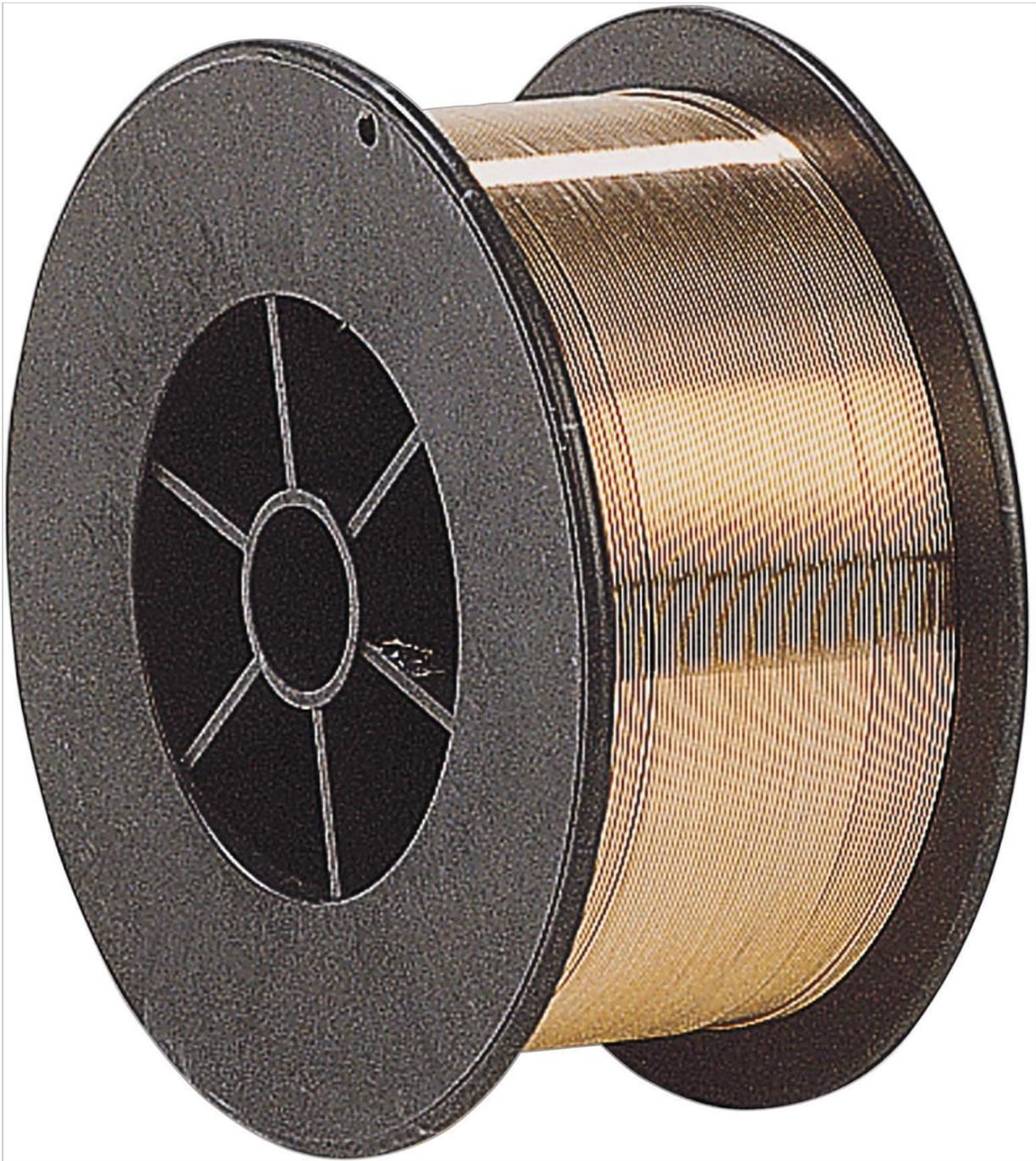


Figure 1: Top view of the Einhell 0.8mm Steel Welding Wire spool. This image shows the copper-coated steel wire neatly wound on a black plastic spool, ready for installation into a welding machine.



Figure 2: Angled view of the Einhell 0.8mm Steel Welding Wire spool. This perspective highlights the side of the spool, showing the robust construction and the consistent winding of the welding wire.

## 4. SETUP AND INSTALLATION

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Proper installation of the welding wire is crucial for consistent feeding and optimal welding performance. This wire is compatible with Einhell EURO SGA 170 and EURO SGA 190/3 gas welding machines.

1. **Power Off:** Ensure the welding machine is completely powered off and disconnected from the main power supply before beginning installation.
2. **Open Wire Compartment:** Open the wire spool compartment on your welding machine. Refer to your welding machine's manual for specific instructions on accessing this area.
3. **Mount the Spool:** Place the 5 kg Einhell welding wire spool onto the spool holder. Ensure it is seated correctly and can rotate freely. The wire should unwind from the bottom of the spool towards the wire feeder mechanism.
4. **Feed the Wire:** Carefully unspool a small length of wire, ensuring it does not kink. Trim any bent or damaged wire end. Guide the wire through the inlet guide and into the wire feeder rollers.
5. **Adjust Roller Tension:** Close the wire feeder mechanism and adjust the roller tension. The tension should be sufficient to feed the wire smoothly without slipping, but not so tight as to deform the wire. Test by pressing the trigger on the welding torch; the wire should feed out steadily.
6. **Select Correct Tip:** Ensure the contact tip in your welding torch matches the 0.8mm diameter of the welding wire.
7. **Close Compartment:** Securely close the wire spool compartment.

## 5. OPERATING INSTRUCTIONS

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Once the welding wire is installed, you can proceed with welding. Always follow the operating instructions provided with your specific Einhell gas welding machine.

- **Gas Connection:** Ensure your shielding gas cylinder is connected, the regulator is set to the appropriate flow rate (typically 8-12 liters per minute for MIG/MAG), and the gas valve is open.
- **Machine Settings:** Set the voltage and wire feed speed on your welding machine according to the material thickness and type of joint. Consult the welding machine's chart or a welding guide for recommended settings for 0.8mm steel wire.
- **Workpiece Preparation:** Clean the workpiece thoroughly, removing any rust, paint, oil, or other contaminants that could affect weld quality.
- **Welding Technique:** Maintain a consistent arc length and travel speed. Use either a push or pull technique depending on the desired weld profile and penetration. For general steel welding with 0.8mm wire, a short circuit transfer mode is common.
- **Post-Weld:** Allow the weld to cool naturally. Chip off any slag (if applicable) and inspect the weld for quality.

## 6. MAINTENANCE

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Proper maintenance of the welding wire ensures its quality and extends its shelf life.

- **Storage:** Store the welding wire in a dry, cool environment, away from moisture and direct sunlight. High humidity can lead to rust on the wire, which can cause feeding issues and poor weld quality.
- **Protection:** Keep the spool covered when not in use to protect it from dust and contaminants.
- **Handling:** Avoid dropping or damaging the spool, as this can lead to wire tangles or deformation.

## 7. TROUBLESHOOTING

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If you encounter issues during welding, consider the following common problems related to welding wire:

- **Wire Feeding Problems:**
  - *Symptom:* Wire feeds inconsistently or stops.
  - *Possible Causes:* Incorrect roller tension, clogged liner, wrong contact tip size, kinked wire, rust on wire.
  - *Solution:* Adjust roller tension, clean or replace liner, ensure correct 0.8mm contact tip, inspect wire for damage/rust.
- **Poor Weld Quality (Porosity, Spatter):**
  - *Symptom:* Weld appears porous, excessive spatter.
  - *Possible Causes:* Insufficient shielding gas, contaminated workpiece, incorrect welding parameters (voltage/wire speed), rusty wire.
  - *Solution:* Check gas flow, clean workpiece, adjust machine settings, ensure wire is clean and dry.
- **Arc Instability:**
  - *Symptom:* Arc flickers or is difficult to maintain.
  - *Possible Causes:* Poor ground connection, incorrect stick-out, worn contact tip, incorrect machine settings.
  - *Solution:* Verify ground clamp connection, adjust stick-out, replace contact tip, fine-tune voltage/wire speed.

## 8. SPECIFICATIONS

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Product Name	Einhell Steel Welding Wire
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<b>Model Number</b>	Schweißdraht Stahl 0.8mm
<b>Wire Diameter</b>	0.8 mm
<b>Spool Weight</b>	5 kg
<b>Material</b>	Steel
<b>Compatible Machines</b>	Einhell EURO SGA 170, Einhell EURO SGA 190/3
<b>Spool Dimensions (L x W x H)</b>	Approx. 21 x 21 x 5.8 cm

## 9. WARRANTY AND SUPPORT

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For warranty information, technical support, or spare parts availability, please refer to the documentation provided with your Einhell welding machine or visit the official Einhell website. You can also contact Einhell customer service directly for assistance.

Visit the official Einhell store for more products and support: [Einhell Store](#)