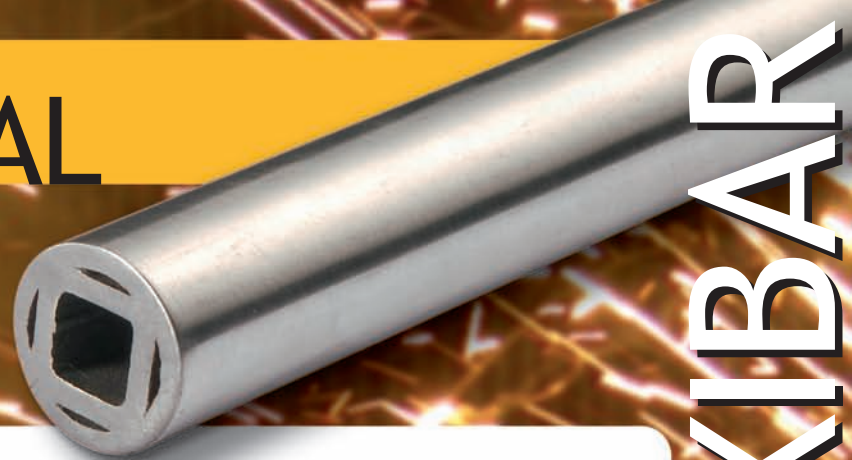


# SHEET TECHNICAL



The Oxibar is a steel oxygen conductive tool that works as a burner and fuel, to burning the furnace slag door and clean minor remnants with extreme power. It's a steel lance, which contains a square shaped drawn pipe displaced to the attack edge of the tool, allowing it to generate a Ventury effect.

<b>Composition</b>	Low carbon SAE 1010-1020 steel tool. Exterior round shape drawn welded steel pipe 1/4" (13.7mm) outside diameter, includes an Interior square shape drawn steel pipe.
<b>Outside Diameter</b>	1/4" (13.7 mm)
<b>Pipe threads</b>	1/4" outside diameter NPT in one edge
<b>Packaging</b>	Finished tube, without oils or fuel agents, plastic wrapped in the threads zone, tightfisted, 100 units per package.
<b>Quality standards</b>	Eddy-current test
<b>Working pressure</b>	From 100 to 150 psi
<b>Required oxygen flow</b>	From 15 to 25 cubic meters per hour
<b>Applications</b>	For use in converters, reactors, cupola, electric arc, induction, reverberatory metallurgical furnaces, slag treatment in areas such as: <ul style="list-style-type: none"><li>■ Clean nozzle and burner zone</li><li>■ Clean load injector</li><li>■ Clean the tunnel and the threshold of the slag door opening.</li><li>■ Burn the slag tunnel door</li></ul>
<b>Efficiency</b>	Decreases 2.5 times the time required to opening the furnace. Leads a more accurate drilling, lowering the opening and cleaning time. Compared with the standard lances, Oxibar decreases 2.5 times lances consumption.
<b>Safety features</b>	Provides greater protection to the operating personnel, causing fewer splashes and a less exposure time to high temperatures, reducing the risk of heat stress
<b>Potential savings</b>	Generates less damage on the plate and the slag tunnel. Decrease logistics costs (transport and storage). Lower supplies consumption (oxygen and security elements)
<b>Accuracy</b>	Increased penetration precision of operating zones and more accurate cutting.

# OXIBAR

www.trefimet.cl



## SPECIFICATIONS

Outside diameter	1/4" (13.7 mm)
Weight	1.5 lbs/mt (0.68 Kgs/mt)
Available lengths	6.6; 9.8; 13.1; 16.4; 19.7 feet ( 2; 3; 4; 5; 6 meters)
Pipe threads	1/4" NPT
Oxygen flow	Ignition: 5 cubic meters/hour Operational: from 15 to 20 cubic meters/hour
Working Pressure	From 100 to 150 psi

## OPERATIONAL REQUIREMENTS

- Oxygen line** 1/2" high pressure oxygen (200 PSI) supply line.
- Security** During the operation of this device, personnel must wear fireproof clothing and protective accessories.
- Joint** Oxibar must be connected to an oxygen pistol with a 1/4" NPT HI nozzle. Check that the pressure and oxygen flow reaches operational parameters.
- Installation** Joint the lance with the oxygen pistol by its threads edge, visible part of the square pipe should be at the other end.
- Ignition** Approach Oxibar to the lighter. Open the oxygen valve with reduced flow, once lit, approach to the work area.
- Operation** Once in the work area, increase the oxygen flow to the operational parameters. As required, perform any of the following procedures:
- To burn the furnace slag tunnel door, bury the lance into the door.
  - To clean the tunnel, blow with the lance to remove small remnants.
  - To clean other sections, push the lance against the surface to be cleaned.
- The lance must be replaced when its length falls to 60cm approximately from the joint. At this point loss of power should be noted and the oxygen supply must be cut off.
- IMPORTANT:** After burning, the lance must be retired from the working zone before cut off the oxygen supply.
- Shutdown** Remove the Oxibar lance from the working area then cut off the oxygen flow.

## SAFETY

The Oxibar is a tool for use in extreme conditions; therefore life and fire safety measures must be observed during its operation.

**Material composition** Recyclable, non-fuel SAE 1010 or 1020 steel

**IMPORTANT: NON OIL OR FUEL ELEMENTS COULD BE PRESENT IN THE OXIBAR LANCE DURING ITS OPERATION.,**

**Storage** At floor level, on racks, away from oil or fuel elements. No external element should be allowed in its interior.

**Risk of use** Operating the lance without safety measures could cause:



- Eye irritation: Obligation to use protective lenses and solder mask
- Severe burns: Obligation to use fireproof clothing and accessories
- Gas inhalation: Obligation to use gas mask (two way with gas filter)

### FIRST AID

- 1) Gas or smoke inhalation Leave the working zone and ventilate, if it is not enough contact your emergency service immediately.
- 2) Eye irritation Wash with plenty of water, if it is not enough, contact your emergency service immediately.
- 3) Burns Remove all personal protection clothes and accessories; wash with water and antiseptic soap. Contact your emergency service immediately.