



  
**BERNZOMATIC**  
SINCE 1876

EUROPE CATALOGUE  
2017 | 2018

# FUEL & TORCHES



## HAND TORCH CYLINDER 400g PRO-MAX™

**CGA-600 Connection (1" US)**  
**Use with Pro-MAX™-Compatible Torches**  
 Including Bernzomatic hand torches  
**Flame Temperature in Air**  
 3,730° F / 2054.4° C, ideal for medium to heavy soldering and brazing  
**Faster heat transfer**  
 Than propane fuel  
**Slim, Lightweight Cylinder**  
 Easy to grip and maneuver  
**Durable Steel Construction**  
**Product Number: 373661**



## PRO-MAX™ VS. PROPANE

Work is completed most efficiently with the primary flame. Pro-MAX™ fuel has more heat transfer in the primary flame than Propane.

FUEL	PROPANE	PRO-MAX™
FLAME TEMPERATURE IN AIR	3,600° F 1982.2° C	3,730° F 2054.4° C
PRIMARY COMBUSTION HEATING VALUE [BTU/CU.FT.]	255	433

\* Temperatures are approximate

## FLAME ANATOMY

SECONDARY FLAME	
INTERCONAL REGION	
PRIMARY FLAME	



## ULTRA SWIRL FLAME TORCH TS8000

**CGA-600 Connection (1" US)**  
 For 400g Pro-MAX™ and Propane Cylinders  
**Fuel Adjustment Knob**  
 Heat output control  
**Replaceable Tip With Ultra Swirl Flame**  
 Maximum targeted heat output  
**Cast Aluminum Construction**  
 For durability and longer life  
**Trigger Lock**  
 For continuous flame  
**Trigger Start**  
 Self-igniting  
**Piston Regulated**  
 For consistent performance in various conditions  
**Lifetime Limited Warranty**

**TS8000T**  
 TORCH ONLY  
**Product Number: 378179**

**TS8000ZKC**  
 TS8000 Torch  
 400g Pro-MAX™ Cylinder  
**Product Number: 378181**

**TS8000CF**  
 TS8000 Torch  
 2- 400g Pro-MAX™ Cylinders  
 Carrying Case  
**Product Number: 379725**

**TS8000R**  
 Replacement Tip for TS8000  
**Product Number: 379634**



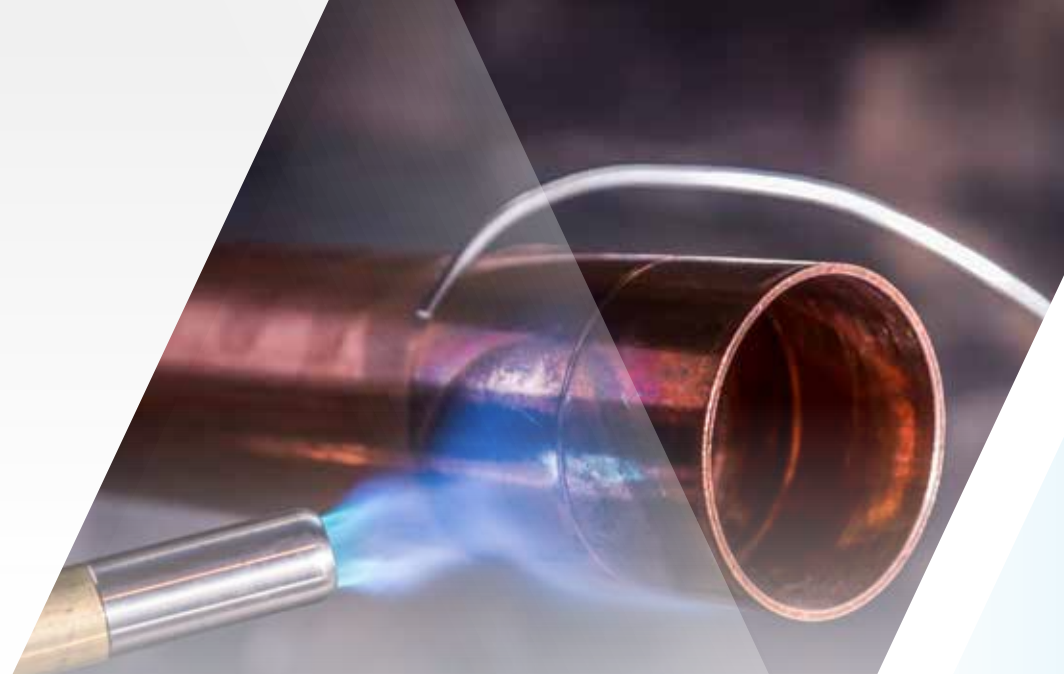
## SWIRL FLAME HOSE TORCH BZ8250HT

**CGA-600 Connection (1" US)**  
 For 400g Pro-MAX™ and Propane Cylinders  
**Fuel Adjustment Knob**  
 Heat output control  
**Swirl Flame**  
 Targeted heat output  
**Trigger Lock**  
 For continuous flame  
**Trigger Start**  
 Self-igniting  
**Fuel Holster**  
 For convenient and extended use  
**Piston Regulated**  
 For consistent performance in various conditions  
**Extended Hose**  
 For durability and longer life  
**Lifetime Limited Warranty**  
**Product Number: 378176**





# SOLDER



## LEAD-FREE SOLDER 96/4 - HVAC

250g, 2mm Diameter

Lead-Free 96% Tin, 4% Silver  
HVAC Solder

**NSF 61 Certification**

for safe use in potable water applications

**Alternative to silver brazing rod**

Use for joining copper or brass to copper or brass,  
copper or brass to steel or stainless, steel or  
stainless to steel or stainless

**Melting temperature:**

430° F, 221° C

**Tensile strength:**

14,000 psi

**ASTM B-32 Sn96**

**Product Number: 378288**



## LEAD-FREE SOLDER 94/6 - HVAC

250g, 2mm Diameter

Lead-Free 94% Tin, 6% Silver  
HVAC Solder

**NSF 61 Certification**

for safe use in potable water applications

**Alternative to silver brazing rods**

Use for joining copper or brass to copper or brass,  
copper or brass to steel or stainless, steel or  
stainless to steel or stainless

**Melting temperature:**

430° F, 221° C

**Pasty range:**

430°–535° F, 221°– 279° C

**Tensile strength:**

15,000 psi

**ASTM B-32 Sn94**

**Product Number: 378284**



## LEAD-FREE SOLDER 97/3

250g, 2mm Diameter

**NSF 61 Certification**  
for safe use in potable water  
applications

**Lead-Free Tin-Copper Solder**

**Melting temperature:**

445° F, 229° C

**Melts, flows and performs better  
than 95/5**

**Tensile strength:**

5800 psi

**Product Number: 378292**



## LEAD-FREE SOLDER 97/3 ROSIN CORE

250g, 2mm Diameter

Lead-Free Rosin Core Solder

Use for speaker wire, motors,  
appliances and general electronic  
repairs

**Melting temperature:**

445° F, 229° C

**Not for use in plumbing or potable  
water applications**

**Product Number: 378296**



## LEADED SOLDER 60/40

250g, 2mm Diameter

60% Tin, 40% Lead Solder

For use only in non-potable water  
applications

**Product Number: 378300**



# / BRAZING RODS

Round: 2.38mm x 508mm

Brazing Rods For Joining Copper, Brass And Bronze

Packaged In Convenient Plastic Tubes 454g & 113g

Color-Coded Caps for Easy Composition Identification



## BRAZING RODS 15% SILVER

15% Silver, 5% Phosphorus,  
remainder Copper

**Best alloy at filling gaps**

when close fit-ups cannot be made

**Highest joint ductility and strength**  
in HVAC-R applications

**Phosphorus acts as a fluxing agent**

when joining copper to copper. Use brazing  
flux when joining brass

**Solidus Temperature:**  
1190°F, 643°C

**Liquidus Temperature:**  
1475°F, 802°C

**Recommended Brazing Range:**  
1300-1500°F, 705-815°C

Meets AWS BCuP-5

**Product Number: 378248 (24 Rods) 454g**

**Product Number: 378245 (6 Rods) 113g**



Made in USA  
with global components



## BRAZING RODS 6% SILVER

6% Silver, 7.5% Phosphorus,  
remainder Copper

**Similar to 15% silver phosphorus copper**  
with the ability to fill gaps and form fillets  
without adversely affecting strength

**Phosphorus acts as a fluxing agent**  
when joining copper to copper.

Use brazing flux when joining brass

**Solidus Temperature:**  
1190°F, 643°C

**Liquidus Temperature:**  
1325°F, 718°C

**Recommended Brazing Range:**  
1275-1450°F, 690-790°C

Meets AWS BCuP-4

**Product Number: 378235 (24 Rods) 454g**

**Product Number: 378228 (6 Rods) 113g**



Made in USA  
with global components



## BRAZING RODS 5% SILVER

5% Silver, 6% Phosphorus,  
remainder Copper

**Similar to 15% silver phosphorus copper**  
with the ability to fill gaps and form fillets  
without adversely affecting strength

**Phosphorus acts as a fluxing agent**  
when joining copper to copper.

Use brazing flux when joining brass

**Solidus Temperature:**  
1190°F, 643°C

**Liquidus Temperature:**  
1495°F, 813°C

**Recommended Brazing Range:**  
1325-1500°F, 720-815°C

Meets AWS BCuP-3

**Product Number: 378224 (24 Rods) 454g**

**Product Number: 378215 (6 Rods) 113g**



Made in USA  
with global components



## BRAZING RODS 0% SILVER

0% Silver, 7.25% Phosphorus,  
remainder Copper

**Phosphorus acts as a fluxing agent**  
when joining copper to copper.

Use brazing flux when joining brass

**Very fluid, medium temperature**  
brazing alloy

**Solidus Temperature:**  
1310°F, 710°C

**Liquidus Temperature:**  
1460°F, 793°C

**Recommended Brazing Range:**  
1350-1550°F, 730-845°C

Meets AWS BCuP-2

**Product Number: 378190 (24 Rods) 454g**

**Product Number: 378186 (6 Rods) 113g**



Made in USA  
with global components



# / FLUX & ACCESSORIES



## FLUX WATER SOLUBLE

NSF 61 certified  
safe for potable water applications

**Water soluble lead-free flux**

**Excellent performance**  
with any lead-free Solder

**Meets ASTM B-813**  
and Copper Development Association requirements

**Recommended soldering range:**  
200-600°F (93-315°C)

**RoHS Compliant**

226 g. per unit

**Product Number: 378309**



## FLUX LIQUID SOFT SOLDERING

Good for soldering copper, brass, nickel, carbon steel, stainless steel, and other metals

**Excellent across a broad range of base metals,**  
solders and temperatures

**Aggressively removes oxide coatings**  
and other impurities

**Use for soft soldering**

**Recommended soldering range:**  
200-650°F (93-345°C)

**Conforms to IPC ANSI J-STD-004, Type INH1**

**RoHS compliant**

118 mL per unit

**Product Number: 378312**



## HEAT SHIELD HEAT CLOTH

22.86 cm x 30.48 cm

**Product Number: 378307**



## HEAT SHIELD COLD COAT GEL SPRAY

Slows the transfer of heat  
in metal while soldering, brazing or welding

**Shields adjoining surfaces**

from overheating, discoloration, damage or distortion

**Rapidly cools hot materials**

**Reduces the risk of hidden fires and heat damage**  
when soldering or welding in compromised areas

**Protects sensitive valves, gaskets, and previously soldered joints**

that may be damaged during soldering or welding

**Non-Toxic And 100% Biodegradable**

1,000 mL

**Product Number: 378314**





# HISTORY AND WARRANTY

## OUR HISTORY



**1876** - Inventor and craftsman Otto Bernz founds the Otto Bernz Co. in Newark, N.J., to sell plumbers' tools, furnaces and torches. He calls his gasoline torches the "Always Reliable," setting a standard for quality and durability that lives on today. In January 1918, the American Artisan and Hardware Record wrote: "Otto Bernz... declares that the most reliable torches are those which are not only made of the best material but which, in addition, are carefully tested before leaving the factory. The mechanism, material, design and fully tested working qualities of gasoline torches which he manufactures are said to be so uniformly excellent as to merit the name, 'Always Reliable.'"

**1940s** - The company relocates to Rochester, N.Y. and changes its name to BernzOmatic.

**1950s** - The first propane torch and fuel cylinder is developed. BernzOmatic propane-powered products include torches for DIYers, cook-stoves, lanterns and portable heaters.

**1960-70s** - BernzOmatic product line expansions include fire extinguishers, charcoal fire starters, heat and smoke detectors, Bernz cutters, tire inflators, refrigerators, charcoal grills, insect foggers and hand tools including wrenches, pliers, drivers, socket sets and adjustable wrenches.

**1969** - Bernzomatic purchases the Birds-Eye plant in Medina, N.Y.

**1982** - Bernzomatic becomes a Division of Newell Rubbermaid.

**2011** - Bernzomatic is acquired by Worthington Cylinders, the leading manufacturer of hand torch cylinders, providing a single source for fuel, torches, solder and plumbing accessories.

**TODAY** - Otto Bernz's passion for craftsmanship and creation burns on as Bernzomatic tools empower professional tradesman, DIYers, artisans, adventurers and creatives with the tools and inspiration they need to take on new projects and redefine what they can achieve.



## LIFETIME LIMITED WARRANTY

Bernzomatic warrants to the original purchaser that this product is free from defects in material and workmanship for as long as you own your TS4000, TS7000, T757, TS8000, BZ4500HS, or BZ8250. This warranty is valid for all purchases of the TS4000, TS7000, T757, TS8000, BZ4500HS, and BZ8250 on or after June 1, 2016.

This warranty does not apply to product that has been damaged as a result of improper maintenance, accident or other misuse, or which fails to operate due to normal wear and tear. This warranty is void if the product is repaired or modified in any way by anyone other than Bernzomatic.

Bernzomatic will repair the product if it proves to be defective in materials or workmanship. At the choice of Bernzomatic, a replacement product may be provided instead of repairing a defective product. The sole obligation of Bernzomatic and your exclusive remedy under this warranty are limited to such repair or replacement.

To make a claim under this Lifetime Limited Warranty, contact any Bernzomatic retailer or contact Bernzomatic directly at +43 7485 606-285. A service representative will assist you. Please provide proof of date of purchase when making a claim.

Bernzomatic makes no other warranties concerning the product. In no event shall Bernzomatic be liable for incidental or consequential damages. Some states do not allow the exclusion or limitation of incidental or consequential damages, so the above limitation or exclusion may not apply. This warranty gives you specific legal rights, and you may also have other rights which vary from state to state.





## OUR COMMITMENT

Bernzomatic markets a complete line of joining technologies products made by professionals for professionals. We apply more than 50 years of American engineering and manufacturing to each product, so you can feel confident in the precisely engineered, quality-tested, safety-assured products with guaranteed performance. Our Slovakia-based customer service team assures locally responsive, multi-lingual support for sales and technical inquiries.



**Chilton, WI, USA**  
Manufacturing

**Mt. Orab, OH USA**  
Manufacturing

**Winston Salem, NC, USA**  
Manufacturing

**Nipo, s.r.o. Slovakia** Customer Service



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