



TORCHES / FUELS / ACCESSORIES





BERNZOMATIC®

TORCH AND FUEL BASICS

MAP//PRO VS. PROPANE

Work is completed most efficiently with the primary flame

Map//Pro fuel has 40% more heat transfer in the primary flame than Propane

Fuel Type	Flame temperature in air (°F)	Primary combustion heating value (BTU/Cu.Ft.)
 Propane	3,600	255
 MAP//Pro™	3,730	433

*Temperatures are approximate

SOLDERING - The process of joining two copper pipes to create a water tight seal.

Steps:

1. Clean fitting and pipe with an abrasive cloth.
2. Apply flux to the fitting and pipe.
3. Heat joint with primary flame until flux sizzles.
4. Apply solder to the joint.

Note: Solder should be melted by the heat of the pipe and fitting, not direct contact with the flame.

Recommended Torches:

TS8000 / BZ8250HT / TS4000 / TS99 / TS839 / TS3000 / UL2317

BRAZING - The process of joining two independent pieces of metal to form one strong weight bearing joint.

Steps:



































1. Stage metal pieces into desired position.
2. Heat joint until it glows.
3. Apply brazing rod to joint while continuing to heat.

Note: Brazing rod should be melted by the heat of the metal pieces, not direct contact with the flame.

Recommended Torches:

OX2550 / TS8000 / BZ8250HT / TS99 / TS839 / TS4000

FIND THE RIGHT TORCH IN 3 EASY STEPS

1	Application	2 Match application to corresponding fuel			
		Micro	Standard Use	Professional Use	Specialty
	Soldering electronic circuits				
	Heat shrink				
	Jewelry design and repair				
	Soldering copper pipes (up to 3/4")				
	Thawing frozen pipes and locks				
	Loosening rusted nuts and bolts				
	Removing paint, caulk and putty				
	Lighting pilot lights and grills				
	Soldering copper pipes (over 3/4")				
	Brazing copper pipes				
	Brazing steel				
	Hardening steel				& 
	Repairing garden tools				& 
	Light welding				& 
	Thin metal cutting				& 
3 Choose corresponding torch head, kits and accessories					
 BUTANE		 PROPANE		 MAP//PRO	
				 OXYGEN	

STANDARD USE

BernzOmatic® standard torches are designed for light duty tasks using propane fuel. In addition to light soldering, standard torches are used for a variety of applications like general heating and thawing frozen pipes. The standard torch category offers multiple flame types for all light duty jobs.

TORCHES

BernzOmatic® standard torches are engineered for efficient use with propane fuel only. These torches are designed for soldering and heating applications.

TS1500 Self-Igniting Torch

Trigger start for ease of lighting. Stainless steel burn tube and brass tip for durability.

- General purpose flame for basic use

TS1500KC—Kit includes TS1500 torch and 14.1 oz. propane fuel.

PK1500KC—Kit includes TS1500 torch, 14.1 oz. propane fuel, lead-free solder wire, soldering paste and flux brush.



TS3000 Self-Igniting Torch

Ergonomically designed comfort grip. Trigger start for ease of lighting. Stainless steel burn tube and brass tip for durability.

- Pressure regulated for consistent performance

TS3000KC—Kit includes TS3000 torch and 14.1 oz. propane fuel.

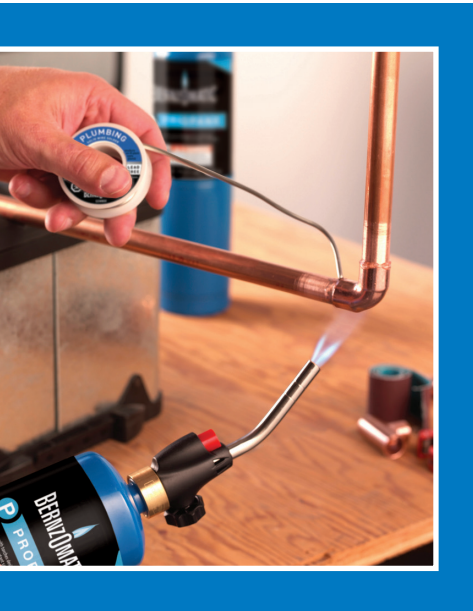


WT2301 Self-Igniting Torch

Multipurpose self-igniting propane torch. Designed for small, soft soldering and general household use. Adjustable flame control knob.

WK2301—Kit includes WT2301 torch and 14.1 oz. Propane fuel.

WPK2301—Kit includes WT2301 torch, 14.1 oz. Propane fuel, lead-free solder wire, soldering paste and flux brush.

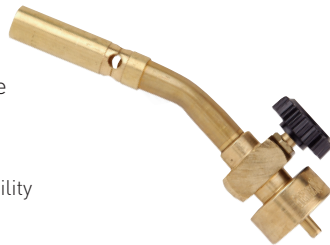


UL2317

Basic Pencil Flame Torch

Produces 1/2" wide pencil flame for light work.

- Brass burn tube for durability
- Solid brass regulators for durability
- Adjustable flame for controlled heat output



UL100—Kit includes UL100 torch and 14.1 oz. propane fuel.

UL125—7-piece pencil flame torch kit includes: Solid brass torch, spark lighter, utility flame tip, durable storage case, 14.1 oz. propane fuel cylinder, flame spreader, and extra sparker flints.

PK1001KC—5-piece pencil flame plumbers kit includes: UL100 torch, 14.1 oz. propane fuel, lead-free solder wire, soldering paste and flux brush.

BZ4500HS

Heat Shrink Torch

Wide flame optimized for heat shrink applications.

- Continuous run lock
- Instant on/off trigger igniter
- Cast aluminum body
- For best results use with propane fuel
- Pressure regulated for consistent performance

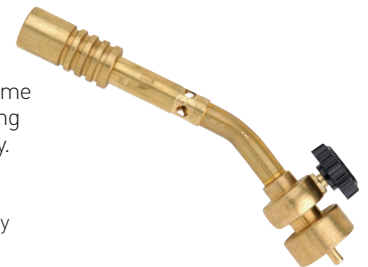


JT680

Jumbo Flame Torch

Produces a high volume 1-1/2" flame for heavy duty soldering and heating jobs. Brass burn tube for durability. Fuel control knob.

- Solid brass regulators for durability
- Adjustable flame for controlled heat output



JT850

Self-Igniting Outdoor Torch

Easy-start yard and utility torch produces 20,000 BTU output.



PROFESSIONAL USE

BernzOmatic® professional torches are designed for heavy duty jobs using Map-Pro or propane fuel. In addition to light duty tasks, professional torches provide higher heat output for applications like brazing and hard soldering. Professional torches feature swirl flame technology that mixes fuel to burn more efficiently in the primary flame creating higher working temperatures which completes the job faster.

TORCHES

BernzOmatic® professional torches are engineered for efficient use with Map-Pro fuel. These torches are designed for soldering, heating, and brazing applications. (See Torch and Fuel basics for Map-Pro advantages).

TS8000 High Intensity Trigger Start Torch

Instant on/off trigger ignition provides easier lighting and increased fuel savings. Large, optimized swirl flame burns hotter. High intensity flame for maximum heat output provides 30% faster soldering time*.

- Adjustable flame control allows for a more precise flame
- Run lock button keeps torch lit for finger-free use
- Pressure regulated for consistent performance
- Cast aluminum construction provides added durability

TS8000BZKC—Kit includes TS8000 torch and 14.1 oz. MAP-Pro fuel.

*Than TS4000



BZ8250HT Trigger Start Hose Torch

Provides maximum accessibility to tight spaces with a 5 foot hose and slender body design. Instant on/off trigger ignition provides easier lighting and increased fuel saving. Optimized swirl flame burns hotter.

- Adjustable flame control allows for a more precise flame
- Lock button keeps torch lit for finger-free use
- Pressure regulated for consistent performance
- Stainless steel burn tube for durability

BZ8250HTKC—Kit includes BZ8250HT hose torch, fuel holster, and 14.1 oz MAP-Pro fuel.



TS4000 Trigger-Start Torch

Instant on/off trigger increases fuel savings and convenience. Lock button keeps torch lit for finger-free use. Replaceable brass tip. Burn tip produces swirl flame for maximum heat output. Pressure regulated to burn in all directions.

- Efficient swirl flame provides high heat output
- Cast aluminum construction provides added durability

TS4000ZKC—Kit includes TS4000 torch and 14.1 oz. MAP-Pro fuel.



TS7000 Trigger Start Torch

Instant on/off trigger ignition provides easier lighting and increased fuel savings. Optimized swirl flame burns hotter. Adjustable flame for a more precise flame.

- Swirl flame provides high heat output
- Lock button keeps torch lit for finger-free use
- Pressure regulated for consistent performance
- Cast aluminum construction provides added durability



BZ4600SW

Swivel Torch

360° swivel head allows for accessibility in tight work spaces. Double “O” ring connection to help prevent gas leaks. Adjustable flame for a more precise flame.

- Swirl flame provides high heat output
- Pressure regulated for consistent performance
- Stainless steel burn tube for durability



OX2550KC CUTTING, WELDING, AND BRAZING TORCH KIT

Kit includes burner wand, hose, oxygen regulator, fuel gas valve, cylinder stand, 1.4 cubic foot oxygen, 14.1 oz. MAP-Pro fuel, spark lighter, and 5 brazing/welding rods.



TS99

Trigger Start Swivel Torch

360° swivel head allows for accessibility in tight work spaces. Trigger start ignition for easier lighting. Double “O” ring connection to help prevent gas leaks. Adjustable flame for a more precise flame.

- Swirl flame provides high heat output
- Pressure regulated for consistent performance.



TS99ZKC—Kit includes TS99 torch, 14.1 oz. MAP-Pro fuel.

PK99KC—Kit includes TS99 torch, 14.1 oz. MAP-Pro fuel, lead-free solder wire, soldering paste and flux brush.

TS839

Trigger Start Swivel Torch

360° swivel head allows for accessibility in tight work spaces. Push button ignition for easy lighting. Adjustable flame for a more precise flame.

- Swirl flame provides high heat output
- Pressure regulated for consistent performance
- Stainless steel burn tube for durability



TS839ZKC—Kit includes TS839 torch, 14.1 oz. MAP-Pro fuel.



SPECIALTY USE

BernzOmatic® specialty torches provide a number of different solutions for unique jobs. Specialty torches offer specific tools for applications like electrical soldering, food preparation and outdoor care. These torches use various fuels depending on the application and torch solution.

MICRO TORCHES

BernzOmatic® micro torches are engineered for efficient use with butane fuel. The torches are designed for precision soldering of electronics, hobby work and jewelry.

ST250K Micro Torch Kit

Refillable precision needle point flame torch. Kit includes:

- Hot knife tip
- Chisel point tip
- Large solder tip
- Fine point solder tip
- Hot blower
- 0.6 oz. rosin core solder
- Cleaning sponge and stand



ST2200T Trigger-Start Micro Torch

Refillable precision needle point flame torch with built-in push button igniter.

- Micro flame torch for light, detailed work
- Trigger start for ease of lighting
- Refillable for convenience

Includes: micro flame torch and soldering tip.



ST200 Micro Torch

- Precision flame for detailed application/use.
- Adjustable flame control knob for ease in switching between different applications.



UTILITY LIGHTERS

BernzOmatic® offers a versatile assortment of innovative utility lighters—there's a perfect lighter for every need. Use them throughout the year, wherever you relax, work or play. All BernzOmatic® lighters are manufactured to the highest standards.

BZLTR200 Flexible Lighter

Perfect for hard to reach places. Large circular flame for outdoor use. Adjustable flame control knob for ease in switching between different applications.

- Flexible stem for hard-to-reach places
- Adjustable windproof flame
- Comfortable ergonomic design
- Large fuel window
- Refillable



BZLTR300R Premium Flexible Lighter

Great for camping or tailgating.

- Flexible stem for hard-to-reach places
- Adjustable windproof flame
- Built in LED light
- Comfortable ergonomic design
- Large fuel window
- Refillable
- Bottle opener



BZLTR100R Utility Lighter

Ideal for everyday use. Lighting candles, indoor fire places, gas stoves, and general indoor use.

- Adjustable flame
- Comfortable, ergonomic design
- Large fuel window
- Refillable



FUELS

We provide the fuels that put your tools to work. Our industry-preferred 14.1 oz BernzOmatic® fuels can connect to torch applications for maximum mobility in tight spaces. We also feature a full line of steel propane cylinders for cooking, temporary heating and more.

BernzOmatic® Propane, MAP-Pro™, Oxygen, and Butane fuels

BernzOmatic® Propane, Max Power Propylene and Oxygen fuels.

TX9 14.1 oz. Propane Fuel Cylinder

Ideal for general soldering.

- Flame temperature in air = 3450 F



MG9 14.1 oz. Map//Pro Fuel Cylinder

Ideal for medium to heavy soldering and brazing.

- Flame temperature in air = 3600 F



OX9 1.4 oz. Oxygen Cylinder

To be used with Max Power Propylene gas for higher temperature combustion.

Ideal for:

- Brazing / Welding
- Medium to heavy soldering
- Cutting thin sheet metal
- Surface hardening of metal
- Flame temperature in air is dependent on fuel gas



TS916 16.4 oz. Propane Cylinder

For use with most portable recreational appliances requiring propane.

- Also available in a 2-pack or 4-pack.



BF55 5.5 oz. Butane Cylinder

Ideal for light or detailed soldering.

- Flame temperature in air = 3200 F
- For use with Micro Torches



BZLTR-R

Butane Lighter Refills

- For use with BernzOmatic lighters: BZLTR100R, BLTR200, and BZLTR300R.



BernzOmatic® Fuel Portables

Used for portable cooking, propane-fueled appliances, temporary heating, and more. Painted with Durabond™ powder coat paint—the most durable in the industry for long life. All steel construction. Made in the USA.

4.25 lb. Propane Cylinder



30 lb. Propane Cylinder



100 lb. Propane Cylinder



11 lb. Propane Cylinder



40 lb. Propane Cylinder



20 lb. Propane Cylinder



WELDING & BRAZING RODS

BernzOmatic® offers a wide variety of welding and brazing rods for various types of metals.

Welding/Brazing Rods	Working Temp	Brinnell Hardness	PSI Tensile Strength
AL3 Aluminum Rods	700° F - 750° F	100	-----
PC3 Phosphorous Copper Rods	1310° F - 1475° F	-----	40,000
NS3 Nickle Silver Rods	1680° F	-----	85,000
WB5 Bronze Rods	1620° F	-----	60,000

Brazing and welding alloy

ITEM#	DESCRIPTION	CASE PACK
NS3	2pc. Nickel-Silver	2
PC3	3pc. Copper Phosphorus	2
WB5	4pc. Bronze	2
AL3	2pc. Aluminum	2

SOLDER AND FLUX

BernzOmatic® offers solid, rosin core, and acid core wire solder and flux for various types of soldering applications.

Plumbing Flux

ITEM#	DESCRIPTION	CASE PACK
SWSF100	1oz. Water Soluble & Brush	6
PF200	2oz. Petroleum & Brush	6
PTF800	8oz. Tinning Flux	6



Abrasives and thermal inhibitors

ITEM#	DESCRIPTION	CASE PACK
SCSYD	2yd. Sand Cloth	6
HC9X12	Heat Cloth	6



Plumbing flux

ITEM#	DESCRIPTION	CASE PACK
SSW300PK	Premium Solder, Water Soluble Flux, Flux Brush, Sand Cloth	6



SOLDER

Premium silver bearing lead-free, NSF certified

ITEM#	DESCRIPTION	CASE PACK
SSW300	3oz. Solid Wire	6
SSW800	8oz. Solid Wire	12
SSW1600	16oz. Solid Wire	6



Fully compliant for use with new 2014 lead-free fittings.

Premium silver bearing lead-free, acid core

ITEM#	DESCRIPTION	CASE PACK
SAC300	3oz. Solid Wire	6
SAC800	8oz. Solid Wire	12



Premium silver bearing lead-free, rosin core

ITEM#	DESCRIPTION	CASE PACK
SRC050	.5oz.	6
SRC300	3oz.	6
SRC800	8oz.	12



Speciality Kits

ITEM#	DESCRIPTION	CASE PACK
SSWS100	96/4 Solid Wire & Flux	6



GENERAL PARTS

BernzOmatic® offers a selection of accessories for work preparation.



S4N1B

Four-in-One Brush

Cleans 1/2" and 3/4" copper tubing and fittings.

- Quick brush replacement



TX405

Spark Lighter

Creates a spark to light most propane and propylene gas fueled torches quickly and easily.



TX406

Replacement Flints

Use to refill on TX405 Spark Lighter.

COMPANY HISTORY

In 1876, Otto Bernz founded the Otto Bernz Co. in Newark, NJ to sell plumbers' tools, furnaces and torches. Gasoline torches with the "Always Reliable" brand also began to appear.

In the 1940s, the name changed to BernzOmatic, and the company relocated to Rochester, NY.

In the 1950s, the first propane torch and fuel cylinder were developed. The use for the propane fuel cylinder was expanded to include leisure time products, cook stoves, lanterns and portable heaters.

In the 1960-70s, product line expansions included 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. BernzOmatic purchased the Birds-Eye plant in Medina, NY in 1969. A new 128,000 square foot manufacturing addition was added to the Medina plant in 1973. All manufacturing and offices were relocated to Medina, NY between 1976 and 1979.

In 1982, BernzOmatic became a Division of Newell Rubbermaid and began to regain its prominence as a profitable and highly respected brand name manufacturer concentrating on hand torches.

In 2011, BernzOmatic was acquired by Worthington Cylinders as part of Worthington's acquisition of Newell Rubbermaid's torch and solder products. The BernzOmatic brand was expanded to include a full line of products that put the flame to work, including hand torches, solder, plumbing accessories, hand torch fuel, camping gas and portable propane. Worthington Cylinders is the leading manufacturer of pressure cylinders, offering a single source for fuel, torches, solder and plumbing accessories.

FREIGHT ALLOWANCES:

All shipments in the United States are F.O.B. BernzOmatic facility with full freight allowed on \$1,000 or more in standard packaged quantities to one destination except Alaska and Hawaii, where freight is allowed to point of embarkation. All BernzOmatic products may be included toward these freight requirements.

PRICE TERMS:

Prices and terms are subject to change without notice. All prices are F.O.B. BernzOmatic facility. Orders are accepted on the basis of prices in effect on date of shipment.

CONDITIONS:

Unless otherwise agreed in writing, this price list will constitute our entire terms and obligations upon acceptance of any order. Orders are filled per our terms of sale without addition, deletion or modification. Special terms printed on customers orders will not be recognized where they differ from ours.

RETURN OF MERCHANDISE:

Returned merchandise will not be accepted for credit, repair or replacement from wholesalers or dealers except by original invoice price less inspection and a restocking charge of 15%. We cannot authorize return of obsolete or discontinued products. No credit will be issued on BernzOmatic products returned as a result of pilferage.

MINIMUM ORDER VALUE: \$500.00

HAZARDOUS MATERIAL HANDLING CHARGES:

All applicable Hazardous Material Charges will be added to invoice.

Re-shipment of BernzOmatic merchandise by Distributors to their customers within the continental United States.

In accordance with new D.O.T. regulations, it is required that proper shipping papers accompany all re-shipments. All re-shipments of compressed gases must bear a "special label" such as the one used by BernzOmatic in making the original shipment to the wholesaler. Re-shipment of this merchandise can be made by freight, express or parcel post. For additional information, consult D.O.T. regulation CFR49, parts 100 through 199.



200 Old Wilson Bridge Road, Columbus, Ohio USA 43085-0391
866-928-2657 WorthingtonCylinders.com