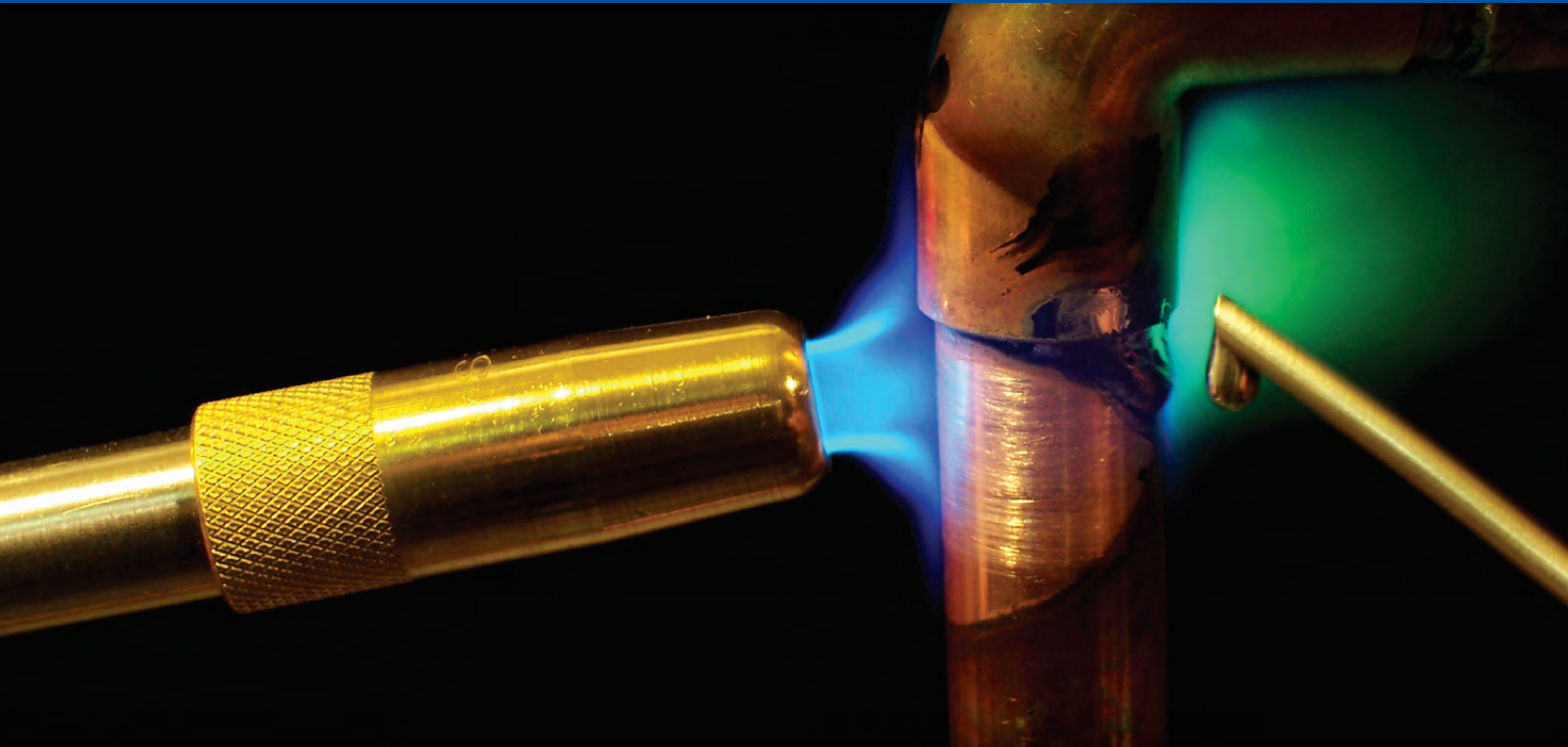




WORTHINGTON
CYLINDERS
A Worthington Industries Company



Joining Technologies Product Catalog

September 2011

TORCHES • FUEL • SOLDER • ACCESSORIES

Worthington Cylinders acquired the assets of Newell Rubbermaid's torch and solder business sold under the BernzOmatic® and Lenox® brands in July, 2011. Order your Lenox torches, fuel, solder, brazing rods and related accessories directly through Worthington Cylinders.

Contact Worthington Cylinders Customer Service or a Representative near you:

For faxed orders, please send orders to:

800-824-2340

614-438-3083

For emailed orders, please send orders to:

Cylinders@WorthingtonIndustries.com

For all phone inquiries, please dial:

800-346-9386

614-438-3013

Worthington Cylinders Remit-To Address:

Worthington Cylinders

PO Box 532575

Atlanta, GA 30353-2575

Worthington Cylinders is the leading global supplier of pressure cylinders and related products including torches, helium balloon kits and propane appliance accessories.

Worthington Cylinders delivers products and value-added services to its customers designed to exceed their expectations in quality, service and value. Our most complete line of pressure cylinders in the industry includes storage of liquefied petroleum, refrigerant, oxygen and industrial gases. Balloon Time®, BernzOmatic® and Worthington Pro Grade® products are available at retailers and distributors nationwide and provide consumers products for home, industrial and equipment repair; grilling; party decorating; and outdoor leisure activities.

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“B” AIR ACETYLENE KITS

Pack Higher Performance in an Easier-To-Carry Package



WC PROD NO	LENOX PROD NO	DESCRIPTION	TIPS INCLUDED
330558	21835LX3B	"B" Air Acetylene Kit	A3 3/16" Swirl Flame Tip
330559	21836LX5B	"B" Air Acetylene Kit	A5 1/4" Swirl Flame Tip
330560	21837LX514B	"B" Air Acetylene Kit	A5 1/4" & A14 1/2" Swirl Flame Tips
330561	21838LX500B	"B" Air Acetylene Kit	AA500 1/4" Self-Igniting Swirl Flame Tip
330562	21839LX800B	"B" Air Acetylene Kit	AA800 5/16" Self-Igniting Swirl Flame Tip

Tip size and quantity vary by kit. See chart above



TANK NOT INCLUDED

“MC” AIR ACETYLENE KITS

Pack Higher Performance in an Easier-To-Carry Package



WC PROD NO	LENOX PROD NO	DESCRIPTION	TIPS INCLUDED
330563	21840LX5MC	"MC" Air Acetylene Kit	A5 1/4" Swirl Flame Tip
330564	21841LX38MC	"MC" Air Acetylene Kit	A3 3/16" & A8 5/16" Swirl Flame Tips
330565	21842LX500MC	"MC" Air Acetylene Kit	AA500 1/4" Self-Igniting Swirl Flame Tip
330566		"MC" Air Acetylene Kit	AA800 5/16" Self-Igniting Swirl Flame Tip

Tip size and quantity vary by kit. See chart above



ALL KITS CONTAIN THE FOLLOWING:



AIR ACETYLENE PISTON REGULATOR WITH TANKTOTE HANDLE, GAUGE GUARD AND 2" EASY READ GAUGE

Provides consistent fuel regulation
Durable brass construction protects 2" Easy Read Gauge from damage
Transport tank easily
Ergonomically designed for comfort
Integrated tank key storage



AA TORCH HANDLE

Comfortable grip with on/off valve and quick connect, "A" size fittings 3/8"



AA HOSE

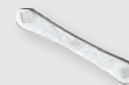
12-1/2' hose with metal strain relief keeps hose from kinking at fittings, "A" size fittings 3/8"



TANKTOTE SLEEVE



ONE OR MORE SWIRL FLAME, OR SELF-IGNITING SWIRL FLAME TIPS



"B" TANK KEY

STANDARD AIR ACETYLENE KITS

Durability and Performance

BUILT-IN DURABILITY AND PERFORMANCE

ALL BRASS PISTON REGULATOR

Provides consistent performance

METAL STRAIN RELIEF

Keeps hose from kinking

HIGH PERFORMANCE SWIRL FLAME TIPS

With replaceable burn tips produce maximum heat output

GAUGE GUARD PROTECTS 2" EASY READ GAUGE

UNIVERSAL
FIT ANY
BRAND
PARTS



330502
LENOX PROD NO: 10835LX311AB

WC PROD NO	LENOX PROD NO	DESCRIPTION	TIPS INCLUDED
330502	10835LX311AB	Air Acetylene Kit	A3 3/16" & A11 7/16" Swirl Flame Tips
330503	10836LX4AB	Air Acetylene Kit	A5 1/4" & A14 1/2" Swirl Flame Tips
330504	10837LX5ABMC	Air Acetylene Kit	A5 1/4" Swirl Flame Tip and B-MC Adapter
330505	10838LX800AB	Air Acetylene Kit	AA800 5/16" Self-Igniting Tip

Tip size and quantity vary by kit. See chart above

ALL KITS CONTAIN THE FOLLOWING:



ALL BRASS PISTON REGULATOR WITH GAUGE GUARD AND 2" EASY READ GAUGE



AA TORCH HANDLE
Comfortable grip with on/off valve and quick connect, "A" size fittings 3/8"



AA HOSE
12-1/2' Hose with metal strain relief keeps hose from kinking at fittings, "A" size fittings 3/8"



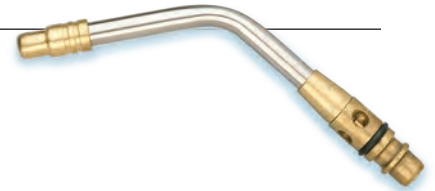
"B" TANK KEY



ONE OR MORE SWIRL FLAME, OR SELF-IGNITING SWIRL FLAME TIPS

AIR ACETYLENE TORCH TIPS

BRASS AND STAINLESS CONSTRUCTION
REPLACEABLE BURN TIP, ORIFICE & "O" RING
QUICK CONNECT



SWIRL FLAME

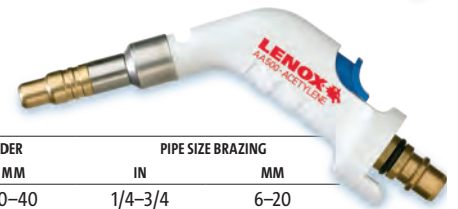
WC PROD NO	LENOX PROD NO	DESCRIPTION	TIP SIZE		PIPE SIZE SOFT SOLDER		PIPE SIZE BRAZING	
			IN	MM	IN	MM	IN	MM
330510*	10851A2R	Light-duty HVAC tip	1/8	3	1/8-1/2	3-13	1/8-1/4	3-6
330567	21980A3R	Light-medium-duty tip	3/16	4.8	1/4-1	6-25	1/8-1/2	3-13
330568	21981A5R	Medium-duty tip	1/4	6.3	3/4-1-1/2	19-40	1/4-3/4	6-20
330569	21982A8R	Medium-heavy-duty tip	5/16	7.9	1-2	25-50	1/2-1	13-25
330570	21983A11R	Heavy-duty tip	7/16	11.1	1-1/2-3	40-75	7/8-1-5/8	22-41
330571	21984A14R	Extra-heavy-duty tip	1/2	12.7	2-3-1/2	50-90	1-2	25-50
330572	21985A32R	Heaviest-duty tip	5/8	15.9	4-6	100-150	1-1/2-4	40-100

*Rosebud flame tip for use with small diameter tubing



SELF-IGNITING SWIRL FLAME

WC PROD NO	LENOX PROD NO	DESCRIPTION	TIP SIZE		PIPE SIZE SOFT SOLDER		PIPE SIZE BRAZING	
			IN	MM	IN	MM	IN	MM
330573	21850AA500	Medium-duty tip	1/4	6.3	3/4-1-1/2	20-40	1/4-3/4	6-20
330574	21851AA800	Medium-heavy-duty tip	5/16	7.9	1-2	25-50	1/2-1	13-25
330575	21852AA900	Extra-heavy-duty tip	1/2	12.7	2-4	50-100	1-2	25-50



SOFT FLAME

WC PROD NO	LENOX PROD NO	DESCRIPTION	TIP SIZE		PIPE SIZE SOFT SOLDER		PIPE SIZE BRAZING	
			IN	MM	IN	MM	IN	MM
330517	10857AS2	Light-duty tip	1/8	3	1/8-3/8	3-9	up to 1/8	up to 3
330518	10858AS3	Medium-duty tip	5/32	4	3/8-1/2	9-13	up to 3/8	up to 9
330519	10859AS4	Medium-duty tip	1/5	5	1/2-1	13-25	up to 1/2	up to 13
330520	10860AS5	Heaviest-duty tip	1/4	6.3	3/4-2	20-50	up to 1	up to 25
330521*	10861AS6*	Heaviest-duty tip	5/8	15.9	1-1/2-4	40-100	up to 1-1/2	up to 40

*Does not include replaceable burn tip



AIR ACETYLENE ACCESSORIES



"B" TANKTOTE SLEEVE
330507
LENOX PROD NO: 10840BSLEEVE



"MC" TANKTOTE SLEEVE
330508
LENOX PROD NO: 10841MCSLEEVE



AIR ACETYLENE PISTON REGULATOR WITH TANKTOTE HANDLE, GAUGE GUARD AND 2" EASY READ GAUGE

330577 "B"
LENOX PROD NO: 21854BREG

330578 "MC"
LENOX PROD NO: 21855MCREG

- Protects 2" Easy Read Gauge from damage
- Transport tank easily
- Integrated tank key storage



AA TORCH HANDLE
330579
LENOX PROD NO: 21856AAH

- Comfortable grip with on/off valve and quick connect
- "A" Size fittings 3/8"



ALL BRASS PISTON REGULATOR WITH GAUGE GUARD
330506
LENOX PROD NO: 10839ABR

- Solid brass regulator with gauge B connection



STRIKER
330509
LENOX PROD NO: 10842STRIKER1



"B" TANK KEY
330350
LENOX PROD NO: 10844TANKKEY



TORCH HEAT SHIELD CLOTH
330905
LENOX PROD NO: 10845HSCLCLOTH

- 9"x12" (15.24cm x 20.32cm)



AA HOSE
330580 (12 1/2")
LENOX PROD NO: 21857HOSE12

330581 (25")
LENOX PROD NO: 21858HOSE25

- Metal strain relief keeps hose from kinking at fittings
- "A" size fittings 3/8"



"B" TO "MC" ADAPTER
330576
LENOX PROD NO: 21853BMC

- Adapts "B" regulator to fit "MC" tanks



FLINT 5 PACK
330904
LENOX PROD NO: 10843FLINTS

AIR PROPANE / MAP//PRO KITS

Pack High Performance in a Durable Kit

ALL KITS CONTAIN THE FOLLOWING:

- All Brass Piston Regulator with GAUGE GUARD and 2" Easy Read Gauge
- 12-1/2' Hose with Metal Strain Relief
- AP Handle
- One or More Swirl Flame Tip or Self-Igniting Swirl Flame Tip

UNIVERSAL
FIT ANY
BRAND
PARTS



TANK NOT INCLUDED

WC PROD NO	LENOX PROD NO	DESCRIPTION	TIPS INCLUDED
330582	21859LX35P	Air Propane / Map//Pro Kit	LP3 3/8" & LP5 3/4" Swirl Flame Tips
330583	21860LX4P	Air Propane / Map//Pro Kit	LP4 1/2" Swirl Flame Tip
330584	21861LX300P	Air Propane / Map//Pro Kit	LP300 3/8" Self-Igniting Swirl Flame Tip
330585	21862LX400P	Air Propane / Map//Pro Kit	LP400 1/2" Self-Igniting Swirl Flame Tip

Tip size and quantity vary by kit. See chart above

AIR PROPANE / MAP//PRO ACCESSORIES

UNIVERSAL
FIT ANY
BRAND
PARTS



**AIR PROPANE / MAP//PRO PISTON
REGULATOR WITH GAUGE GUARD
AND 2" EASY READ GAUGE**
330591

LENOX PROD NO: 21868APREG

- Provides consistent fuel regulation
- Durable brass construction
- Protects 2" Easy Read Gauge from damage



**AIR PROPANE / MAP//PRO TORCH
HANDLE**
330592

LENOX PROD NO: 21869APH

- Comfortable grip with on/off valve and quick connect
- Fitting size 9/16"



12-1/2' HOSE WITH METAL STRAIN RELIEF
330593

LENOX PROD NO: 21870PHOSE112

25' HOSE WITH METAL STRAIN RELIEF
330594

LENOX PROD NO: 21871PHOSE25

- Metal strain relief keeps hose from kinking at fittings

AIR PROPANE / MAP//PRO TIPS

BRASS AND STAINLESS CONSTRUCTION
 REPLACEABLE BURN TIP, ORIFICE & "O" RING
 QUICK CONNECT



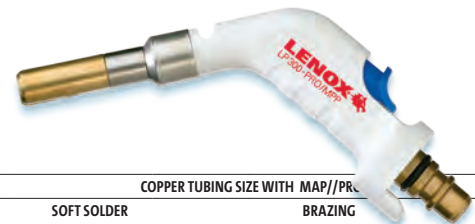
SWIRL FLAME

WC PROD NO	LENOX PROD NO	TIP SIZE		COPPER TUBING SIZE WITH PROPANE				COPPER TUBING SIZE WITH MAP//PRO			
				SOFT SOLDER		BRAZING		SOFT SOLDER		BRAZING	
				IN	MM	IN	MM	IN	MM	IN	MM
330512	10852LP2	5/16	7.9	1/8-1/4	3-6	1/16-1/4	2-6	1/8-1/2	3-13	1/8-1/4	3-6
330586	21863LP3	3/8	9.5	1/4-1	6-25	1/8-1/2	3-13	1/4-1 1/2	6-40	1/4-1/2	6-13
330587	21864LP4	1/2	12.7	1/4-1 1/2	6-40	1/4-3/4	6-19	1/4-2 1/2	6-63	1/4-1 1/4	6-32
330588	21865LP5	3/4	19	1 1/2-2 1/2	40-63	1/2-1 1/4	13-32	1-4	25-100	1/2-2	13-50
330514	10855LP6	1	25	1 1/2-4	40-100	3/4-2	19-50	1 1/2-6	40-150	3/4-4	19-100



SELF-IGNITING SWIRL FLAME

WC PROD NO	LENOX PROD NO	TIP SIZE		COPPER TUBING SIZE WITH PROPANE				COPPER TUBING SIZE WITH MAP//PRO			
				SOFT SOLDER		BRAZING		SOFT SOLDER		BRAZING	
				IN	MM	IN	MM	IN	MM	IN	MM
330589	21866LP300	3/8	9.5	1/4-1	6-25	1/8-1/2	3-13	1/4-1 1/2	6-40	1/4-1/2	6-13
330590	21867LP400	1/2	12.7	1/4-1 1/2	6-40	1/4-3/4	6-19	1/4-2 1/2	6-63	1/4-1 1/4	6-32



MOBILE TORCH SYSTEM II

Hot Performance. Cool Mobility.

ACCESSIBILITY

MTS II extends the reach and access to any job situation - crawl spaces, attics, under cabinets, on ladders and more

GREATER STORAGE

Improved carrying case now holds two 14.1 oz gas cylinders

Added space for more solder accessories and tools

PROTECTION

Integrated hose wrap - keeps hose in place

Tip holder - protects and cools tip after use

All tools and accessories - protected inside the durable case

COMPATIBLE WITH COMPETITIVE COMPONENTS

Durable, lightweight case can be used with competitor's torch, fuel and accessories



HOLDS:
two 14.1 oz gas cylinders

FUEL AND SOLDER
ACCESSORIES NOT INCLUDED

WC PROD NO	LENOX PROD NO	DESCRIPTION	TIP INCLUDED
330532	14812LX30OFB	Mobile Torch System II	LP300 3/8"
330533	14813LX400FB	Mobile Torch System II	LP400 1/2"
330528	10886LXPSREG	All Brass Regulator	—

ALL SYSTEMS CONTAIN THE FOLLOWING:



MOBILE TORCH II CASE
330534
LENOX PROD NO: 14814LXFB

- Store and transport two gas cylinders, solder, tools and accessories
- Integrated hose wrap and tip holder



ALL BRASS REGULATOR
330528
LENOX PROD NO: 19886LXPREG

- CGA-600 cylinder connection for MPP and Propane



12-1/2' HOSE WITH METAL STRAIN RELIEF
330593
LENOX PROD NO: 21870HOSE12

- Metal strain relief keeps hose from kinking at fittings



AP HANDLE
330592
LENOX PROD NO: 21869APH

- Comfortable grip with on/off valve and quick connect
- Fitting size 9/16"



SELF-IGNITING SWIRL FLAME AIR PROPANE / MAP//PRO TIP
330589
LENOX PROD NO: 21866LP300

- Replaceable burn tip, orifice and "O" ring



SELF-IGNITING HAND TORCHES

Maximum Heat Output, Durability, and Safety



TARGETED HEAT OUTPUT

For accurate and efficient performance

CAST ALUMINUM CONSTRUCTION

Provides outstanding durability

SOLID BRASS REGULATORS

For efficient fuel regulation

WC PROD NO	LENOX PROD NO	REPLACEMENT BURN TIPS	DESCRIPTION
330546	21178LT92	—	Ultra Swirl with Adjustable Flame
330547	21179LT92R	330554	Adjustable Ultra Swirl Replacement Assembly
330544	21176LT91	—	Swirl with Adjustable Flame
330545	21177LT91R	330555	Adjustable Swirl Replacement Assembly
330542	21174LT90	—	Swirl Flame Hand Torch
330543	21175LT90R	330555	Swirl Flame Replacement Assembly
330549	21183LT60	—	Heat Shrink Hand Torch
330550	21184LT60R	330556	Heat Shrink Replacement Assembly
330540	21172LS20	—	Self-igniting 360° Swivel Torch
330541	21173LS20R	2330557	Self-igniting 360° Swivel Torch Replacement Assembly
330538	21170LS10	—	360° Swivel Torch
330539	21171LS10R	—	360° Swivel Torch Replacement Assembly



WC PROD NO	LENOX PROD NO	REBUILD KITS PROD NO	REPLACEMENT BURN TIP ASSEMBLY	COPPER TUBING SIZE WITH PROPANE				COPPER TUBING SIZE WITH MAP//PRO			
				SOFT SOLDER		BRAZING		SOFT SOLDER		BRAZING	
				IN	MM	IN	MM	IN	MM	IN	MM
330542	21174LT90	330543	330555	1/8-2	3-50	1/16-3/4	2-19	1/8-3	3-75	1/16-1	2-25
330544	21176LT91	330545	330555	1/8-2	3-50	1/16-3/4	2-19	1/8-3	3-75	1/16-1	2-25
330546	21178LT92	330547	330554	3/4-3	19-75	1/4-1	6-25	3/4-4	19-100	1/4-1-3/4	6-45
330549	21183LT60	330550	330556	—	—	—	—	—	—	—	—
330538	21170LS10	330539	—	1/4-3	6-75	1/4-1	6-25	1/4-3-1/2	6-85	1/4-1-3/4	6-45
330540	21172LS20	330541	330557	1/4-3	6-75	1/4-1	6-25	1/4-3-1/2	6-85	1/4-1-3/4	6-45



LT92KFB HAND TORCH KIT

Hot Performance. Cool Mobility.

STORAGE

Improved carrying case holds two 14.1 oz gas cylinders
Store and transport LENOX Self-Igniting Hand Torch
Handle folds down for easy storage
Added space for tubing cutter, solder and accessories

PROTECTION

Durable case protects fuel, torch and accessories

COMPATIBLE WITH

COMPETITIVE COMPONENTS

Durable, lightweight case can be used with competitors fuel and accessories



HOLDS:

two 14.1 oz gas cylinders

SOLDER ACCESSORIES & TOOLS NOT INCLUDED



WC PROD NO	LENOX PROD NO	DESCRIPTION	HAND TORCH INCLUDED
330536	14816LT92FB	Hand Torch & Case Only	LT92
304331	N/A	14.1 oz NRT Propane Gas - US	—
304411	N/A	14.1 oz NRT Propane Gas - CANADA	—
308486	N/A	14.1 oz NRT Map Pro Gas - US	—
308484	N/A	14.1 oz NRT Map Pro Gas - CANADA	—

PREMIUM LEAD-FREE SOLDER

MEETS HIGHEST PRODUCT STANDARDS

NSF 61 Certification for safe use in potable water applications

100% ENVIRONMENTALLY SAFE

Completely free of antimony or nickel



PREMIUM LEAD-FREE

Patented formula advantages

Lowest melting temperature: 410° F

Best flowing lead-free solder available

Highest tensile strength: 7130 psi



WC PROD NO	LENOX PROD NO	DESCRIPTION	WEIGHT		DIAMETER		CARTON QTY
			LB	G	IN	MM	
327929	WS15086	Premium Wire Spool	1	454	.118	3	50
327930*	WS15086NB*	Premium Wire Spool	1	454	.118	3	50
327953	WS15259	Premium Wire Spool	1	454	.118	3	20
327928	WS15084	Premium Wire Spool	1	454	.062	1.6	50
327933	WS15090	Premium Wire Spool	1/4	113	.118	3	50
327935	WS15092	Premium Wire Spool	1/2	227	.118	3	50
327934	WS15091	Premium Wire Spool	5	2270	.118	3	10
327957	WS15284	Premium Wire Spool	5	2270	.062	1.6	10
327964	WS15332	Premium Wire Spool	5	2270	.050	1.6	10
327931	WS15087	Premium Wire Spool	20	9072	.118	3	2
327932	WS15089	Premium Wire Spool	40	18144	.118	3	1
327927	WS15081	Premium Sm Ingot	5	2270	—	—	10

* Spool is not sold in an individual box

SILVER LEAD-FREE

Wide pasty range (440°–640° F) allows for more working time

Ideal for use on large diameter pipe

High tensile strength: 6900 psi

Low melting temperature: 440° F



WC PROD NO	LENOX PROD NO	DESCRIPTION	WEIGHT		DIAMETER		CARTON QTY
			LB	G	IN	MM	
327961	WS15318	Silver Wire Spool	1	454	.118	3	50
327962*	WS15318NB*	Silver Wire Spool	1	454	.118	3	50
327965	WS15344	Silver Wire Spool	1	454	.118	3	20
327963	WS15319	Silver Wire Spool	1/4	113	.118	3	50
327966	WS15346	Silver Wire Spool	20	9072	.118	3	2

* Spool is not sold in an individual box

LEAD-FREE

Patented formula advantages

Low melting temperature: 419° F

Increased flow properties

High tensile strength: 6950 psi



WC PROD NO	LENOX PROD NO	DESCRIPTION	WEIGHT		DIAMETER		CARTON QTY
			LB	G	IN	MM	
327914	WS15037	Lead-Free Wire Spool	1	454	.118	3	50
327915*	WS15037NB*	Lead-Free Wire Spool	1	454	.118	3	50
327954	WS15262	Lead-Free Wire Spool	1	454	.093	2.4	50
327917	WS15039	Lead-Free Wire Spool	1/4	113	.118	3	50
327919	WS15041	Lead-Free Wire Spool	1/2	227	.118	3	50
327918	WS15040	Lead-Free Wire Spool	5	2270	.118	3	5
327916	WS15038	Lead-Free Wire Spool	20	9072	.118	3	2

* Spool is not sold in an individual box

Unit lot numbering ensures complete traceability

LEAD-FREE SOLDER

FOR USE IN PLUMBING AND POTABLE WATER APPLICATIONS



SILVER BEARING ALLOY LEAD-FREE

NSF 61 Certification for safe use in potable water applications

Lead-Free Tin-Copper-Silver Solder

Wide pasty range

Melting temperature: 440° F

Tensile strength: 6600 psi

ASTM B-32



WC PROD NO	LENOX PROD NO	DESCRIPTION	WEIGHT		DIAMETER		CARTON QTY
			LB	G	IN	MM	
327924	WS15067	Silver Bearing Alloy Spool	1	454	.118	3	50
327925	WS15068	Silver Bearing Alloy Wire Spool	1/4	113	.118	3	50
327926	WS15069	Silver Bearing Alloy Spool	5	2270	.118	3	10

97/3 LEAD-FREE

NSF 61 Certification for safe use in potable water applications

Lead-Free Tin-Copper Solder

Melts, flows and performs better than 95/5

Melting temperature: 445° F

Tensile strength: 5800 psi

ASTM B-32



WC PROD NO	LENOX PROD NO	DESCRIPTION	WEIGHT		DIAMETER		CARTON QTY
			LB	G	IN	MM	
327922	WS15064	97/3 Wire Spool	1	454	.118	3	50
327971	WS15397	97/3 Wire Spool	1	454	.062	1.6	50
327967	WS15355	97/3 Wire Spool	1/4	113	.118	3	50
327923	WS15066	97/3 Wire Spool	1/2	227	.118	3	50
327960	WS15317	97/3 Wire Spool	5	2270	.118	3	10
327941	WS15164	97/3 Wire Spool	20	9072	.118	3	2

95/5 LEAD-FREE

Lead-Free Tin-Antimony Solder

Narrow pasty range

Melting temperature: 455° F

Tensile strength: 5500 psi

ASTM B-32



WC PROD NO	LENOX PROD NO	DESCRIPTION	WEIGHT		DIAMETER		CARTON QTY
			LB	G	IN	MM	
327903	WS15018	95/5 Wire Spool	1	454	.118	3	50
327942	WS15181	95/5 Wire Spool	1	454	.093	2.4	50
327968	WS15359	95/5 Wire Spool	1	454	.118	3	25
327958	WS15312	95/5 Wire Spool	1/4	113	.118	3	50
327959	WS15313	95/5 Wire Spool	1/2	227	.118	3	50
327940	WS15147	95/5 Wire Spool	5	2270	.118	3	10
327936	WS15095	95/5 Wire Spool	20	9072	.118	3	2

Unit lot numbering ensures complete traceability

SPECIALTY LEAD-FREE SOLDER



96/4 LEAD-FREE

Lead-Free 96% Tin 4% 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

Tensile strength: 14,000 psi

ASTM B-32 Sn96



94/6 LEAD-FREE

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

Pasty range: 430°–535° F

Tensile strength: 15,000 psi

ASTM B-32 Sn94



WC PROD NO	LENOX PROD NO	DESCRIPTION	WEIGHT		DIAMETER		CARTON
			LB	G	IN	MM	QTY
327939	WS15100	96/4 HVAC Wire Spool	1	454	.118	3	10
327943	WS15204	96/4 HVAC Wire Spool	1	454	.062	1.6	10

WC PROD NO	LENOX PROD NO	DESCRIPTION	WEIGHT		DIAMETER		CARTON
			LB	G	IN	MM	QTY
327937	WS15098	94/6 HVAC Wire Spool	1	454	.118	3	10
327938	WS15099	94/6 HVAC Wire Spool	20	9072	.118	3	2

ACID CORE LEAD-FREE

Use for tin repairs, sheet metal, auto radiators, metal gutters, non-electrical and non-plumbing applications

Melting temperature: 445° F

Not for use in plumbing or potable water applications



ROSIN CORE LEAD-FREE

Lead-Free Rosin Core Solder

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

Melting temperature: 445° F

Not for use in plumbing or potable water applications



WC PROD NO	LENOX PROD NO	DESCRIPTION	WEIGHT		DIAMETER		CARTON
			LB	G	IN	MM	QTY
327909	WS15023	Acid Core Wire Spool	1	454	.062	1.6	50
327978	WS15406	Acid Core Wire Spool	1	454	.125	3.2	50
327910	WS15025	Acid Core Wire Spool	1/2	227	.062	1.6	18

WC PROD NO	LENOX PROD NO	DESCRIPTION	WEIGHT		DIAMETER		CTN
			LB	G	IN	MM	QTY
327911	WS15030	Rosin Core Wire Spool	1	454	.062	1.6	50
327973	WS15401	Rosin Core Wire Spool	1	454	.031	.8	50
327974	WS15402	Rosin Core Wire Spool	1	454	.040	1	50
327975	WS15403	Rosin Core Wire Spool	1	454	.050	1.3	50
327976	WS15404	Rosin Core Wire Spool	1	454	.100	2.5	50
327977	WS15405	Rosin Core Wire Spool	1	454	.125	3.2	50
327912	WS15031	Rosin Core Wire Spool	1/4	113	.062	1.6	50
327913	WS15032	Rosin Core Wire Spool	1/2	227	.062	1.6	18

Unit lot numbering ensures complete traceability

LEADED SOLDER

FOR USE ONLY IN NON-POTABLE WATER APPLICATIONS

L60/40 LEADED

60% Tin, 40% Lead Solder

WC PROD NO	LENOX PROD NO	DESCRIPTION	WEIGHT		DIAMETER		CARTON QTY
			LB	G	IN	MM	
327889	WS10261	60/40 Wire Spool	1	454	.125	3.2	50
327885	WS10107	60/40 Wire Spool	25	11340	.125	3.2	2
327879	WS10069	60/40 Extruded Bar	1	454	—	—	20

40/60 LEADED

40% Tin, 60% Lead Solder

WC PROD NO	LENOX PROD NO	DESCRIPTION	WEIGHT		DIAMETER		CARTON QTY
			LB	G	IN	MM	
327880	WS10088	40/60 Wire Spool	1	454	.125	3.2	50
327881	WS10089	40/60 Wire Spool	25	11340	.125	3.2	2
327893	WS10300	40/60 Extruded Bar	1	454	.050	1.2	50
327901	WS10316	30/70 Extruded Bar	1	454	—	—	50



50/50 LEADED

50% Tin, 50% Lead Solder

WC PROD NO	LENOX PROD NO	DESCRIPTION	WEIGHT		DIAMETER		CARTON QTY
			LB	G	IN	MM	
327882	WS10098	50/50 Wire Spool	1	454	.125	3.2	50
327894	WS10305	50/50 Wire Spool	1/4	113	.125	3.2	50
327895	WS10306	50/50 Wire Spool	1/2	227	.125	3.2	50
327884	WS10100	50/50 Wire Spool	5	2270	.125	3.2	10
327883	WS10099	50/50 Wire Spool	25	11340	.125	3.2	2
327888	WS10257	50/50 Extruded Bar	1	454	—	—	50
327886	WS10161	50/50 Extruded Meter Bar	1/2	227	—	—	50
327890	WS10297	50/50 Extruded Tri Bar	1/3	151	1/4	6.4	50
327891	WS10298	50/50 Extruded Tri Bar	13/32	184	5/16	7.9	50
327892	WS10299	50/50 Extruded Tri Bar	1/2	227	7/16	11.1	50

SPECIALTY LEADED SOLDER

FOR USE ONLY IN NON-POTABLE WATER APPLICATIONS

ACID CORE LEADED

Use for tin repairs, sheet metal, auto radiators, metal gutters, and non-electrical and non-plumbing applications

Tin-Lead Acid Core Solder

WC PROD NO	LENOX PROD NO	DESCRIPTION	WEIGHT		DIAMETER		CARTON QTY
			LB	G	IN	MM	
327902	WS10317	30/70 Acid Core Wire Spool	1	454	.125	3.2	50
327899	WS10314	60/40 Acid Core Wire Spool	1	454	.062	1.6	50
327900	WS10315	40/60 Acid Core Wire Spool	1	454	.062	1.6	50
327887	WS10196	3/2/95 Acid Core Wire Spool	1/2	227	.125	1.6	50

ROSIN CORE LEADED

Use for speaker wire, motors, appliances and general electronic repairs Tin-Lead Rosin Core Solder

WC PROD NO	LENOX PROD NO	DESCRIPTION	WEIGHT		DIAMETER		CARTON QTY
			LB	G	IN	MM	
327897	WS10312	60/40 Rosin Core Wire Spool	1	454	.062	1.6	50
327903	WS10318	60/40 Rosin Core Wire Spool	1	454	.031	.8	50
327904	WS10320	60/40 Rosin Core Wire Spool	1	454	.050	1.3	50
327905	WS10321	60/40 Rosin Core Wire Spool	1	454	.100	2.5	50
327906	WS10322	60/40 Rosin Core Wire Spool	1	454	.125	3.2	50
327898	WS10313	40/60 Rosin Core Wire Spool	1	454	.062	1.6	50



PLUMBING KITS

PREMIUM 8 OZ SOLDERING KIT 327945 WS15224

Includes everything needed to make professional quality repairs: LENOX premium Lead-Free 8 oz solder, LENOX water soluble 1.7 oz flux, 1/2" wire fitting brush, sand cloth and flux brush
Carton quantity: 6



4 OZ PLUMBING KIT 327944 WS15223

Includes everything needed to make professional quality repairs: LENOX Lead-Free 4 oz solder, LENOX water soluble 1 oz flux, sand cloth and flux brush
Carton quantity: 12



COLD COAT

PATENTED THERMAL SHIELD GEL

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



WC PROD NO	LENOX PROD NO	DESCRIPTION	WEIGHT		CTN
			OZ	G	QTY
328039	WS80325	Cold Coat Thermal Shield Gel Spray	32	94.6	8
328040	WS80326	Cold Coat Thermal Shield Gel Paste	32	94.6	8

BRAZING RODS

.125" x .050" x 20"
3.175MM x 1.27MM x 508MM

BRAZING RODS FOR JOINING COPPER, BRASS AND BRONZE

PACKAGED IN CONVENIENT PLASTIC TUBES
1lb / 454g, 1/2lb / 227g & 1/4lb / 113g



15% SILVER BRAZING RODS

15% Silver, 5% Phosphorus, balance 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. When joining brass use LENOX Brazing Flux (WS78172)

Temperature: Melt 1190° F, Flow 1475° F

Meets AWS BCup-5



WC PROD NO	LENOX PROD NO	DESCRIPTION	WEIGHT		CARTON QTY
			LB	G	
328015	WS78171	Brazing Rods	1	454	12
328014	WS78170	Brazing Rods	1/2	227	12
328013	WS78169	Brazing Rods	1/4	113	12

6% SILVER BRAZING RODS

6% Silver, 7.5% Phosphorus, balance Copper

Similar to 15% silphos with the ability to fill gaps and form fillets without adversely affecting strength

Phosphorus acts as a fluxing agent when joining copper to copper. When joining brass use LENOX Brazing Flux (WS78172)

Temperature: Melt 1190° F, Flow 1460° F

Meets AWS BCuP-4



WC PROD NO	LENOX PROD NO	DESCRIPTION	WEIGHT		CARTON QTY
			LB	G	
328012	WS78168	Brazing Rods	1	454	12
328011	WS78166	Brazing Rods	1/4	113	12

5% SILVER BRAZING RODS

5% Silver, 6% Phosphorus, balance Copper

Similar to 15% silphos with the ability to fill gaps and form fillets without adversely affecting strength

Phosphorus acts as a fluxing agent when joining copper to copper. When joining brass use LENOX Brazing Flux (WS78172)

Temperature: Melt 1190° F, Flow 1495° F

Meets AWS BCuP-3



WC PROD NO	LENOX PROD NO	DESCRIPTION	WEIGHT		CARTON QTY
			LB	G	
328010	WS78165	Brazing Rods	1	454	12
328009	WS78163	Brazing Rods	1/4	113	12

0% SILVER BRAZING RODS

0% Silver, 7.25% Phosphorus, balance Copper

Phosphorus acts as a fluxing agent when joining copper to copper. When joining brass use LENOX Brazing Flux (WS78172)

Very fluid, medium temperature brazing alloy

Temperature: Melt 1310° F, Flow 1460° F

Meets AWS BCuP-2



WC PROD NO	LENOX PROD NO	DESCRIPTION	WEIGHT		CARTON QTY
			LB	G	
328008	WS78162	Brazing Rods	1	454	12
328007	WS78161	Brazing Rods	1/2	227	12
328006	WS78160	Brazing Rods	1/4	113	12

BRAZING WIRE



45% SILVER BRAZING WIRE

45% Silver, 25% Zinc, balance Copper
Melting temperature: 1225°–1500° F
Meets AWS Bag-5
Sold in troy ounces

WC PROD NO	LENOX PROD NO	DESCRIPTION	WEIGHT		CARTON QTY
			TROY OZ	G	
327990	WS78045	Brazing Wire	1	31	1
327998	WS78104	Brazing Wire	3	93	1
327989	WS78013	Brazing Wire	5	156	1

56% SILVER BRAZING WIRE

56% Silver, 17% Zinc, 5% Tin, balance Copper
Melting temperature: 1145°–1500° F
Meets AWS Bag-7
Sold in troy ounces

WC PROD NO	LENOX PROD NO	DESCRIPTION	WEIGHT		CARTON QTY
			TROY OZ	G	
328017	WS78185	Brazing Wire	1	31	1
328018	WS78186	Brazing Wire	3	93	1
327992	WS78063	Brazing Wire	5	156	1

INDUSTRIAL ALLOYS



BABBITT/PEWTER/TIN INDUSTRIAL METALS

Consists of one or more non-ferrous metals in various proportions

Babbitt/Pewter can be used for lining bearings

A high Tin alloy is desirable for heavy or high speed bearing loads

QUALITY CONTROL

All product is metal imprinted with the noun name abbreviation and the lot #

Certificate of Analysis and Certification to Specification available if required

WC PROD NO	LENOX PROD NO	DESCRIPTION	ALLOY	CARTON QTY
N/A	WS00533	Pure Tin Bar	Sn100	70 lb
327984	WS44014	#3 Babbitt (Willard #3) Genuine Sm 5.5# Ingot	Sn87 Sb10 Cu3	55 lb
327985	WS44016	B23-G2 89/7.5/3.5 Babbitt Lg 17.5# Ingot	Sn89 Sb7.5 Cu3.5	35 lb
327986	WS44017	B23-G2 Babbitt Sm 5.5# Ingot	Sn89 Sb7.5 Cu3.5	55 lb
327987	WS44028	4x Nickel Babbitt Sm 5.5# Ingot	Sn89 Sb7.5 Cu3.0 Ni0.5	55 lb
327982	WS42050	#4 Babbitt Pb96 Sn4 S8.5# avg Sm Ingot	Pb96 Sb4	50 lb
327983	WS42051	Univ Babbitt B23-G7 8.5# avg Sm Ingot	Pb75.5 Sb15 Sn9.5	50 lb

MSDS available in hard copy or downloadable from lenoxtools.com

SOLDERING AND BRAZING FLUX

CRITICAL FOR PROPER SOLDERING AND SELECTED BRAZING ACTIVITIES
AIDS REMOVAL OF OXIDES AND IMPURITIES
HELPS DRAW SOLDER AND BRAZING ALLOYS INTO JOINTS
PROVIDES BETTER ADHESION OF ALLOY TO PIPE



WATER SOLUBLE FLUX

NSF 61 certified safe for potable water applications

Water soluble lead-free flux

Meets ASTM B-813

Excellent performance with any lead-free Solder

Unit lot numbering ensures complete traceability



WC PROD NO	LENOX PROD NO	DESCRIPTION	WEIGHT		CTN QTY
			OZ	G	
327994	WS78091	Water Soluble Flux	1.7	48	30
327995	WS78092	Water Soluble Flux	8	227	12
327996	WS78093	Water Soluble Flux	16	454	12

SILVER BRAZING PASTE FLUX

General purpose brazing paste flux

Brazes copper, brass, nickel, carbon steel, stainless steel and precious metals

Residues are water soluble

Brush cap dispenser included

Appropriate flux metals: BAg, BCuP

AWS A5.31-91, Type FB3A



WC PROD NO	LENOX PROD NO	DESCRIPTION	WEIGHT		CTN QTY
			OZ	G	
328016	WS78172	Silver Brazing Paste Flux	6	170	6

TINNING FLUX

NSF 61 certified safe for potable water applications

Petroleum based lead-free flux with metals for pre-tinning copper

Check local plumbing codes for usage and restrictions

Unit lot numbering ensures complete traceability



WC PROD NO	LENOX PROD NO	DESCRIPTION	WEIGHT		CTN QTY
			OZ	G	
327997	WS78096	Tinning Flux	1.7	48	30

PASTE FLUX

NSF 61 certified safe for potable water applications

Petroleum based lead-free flux

Check local plumbing codes for usage and restrictions

Unit lot numbering ensures complete traceability



WC PROD NO	LENOX PROD NO	DESCRIPTION	WEIGHT		CTN QTY
			OZ	G	
327993	WS78090	Paste Flux	2	57	30
328005	WS78130	Paste Flux	8	227	12
328045	WS81144	Paste Flux - Bottle with Brush Cap	4	113	6
328030	WS80143	Paste Flux	16	454	12
328042	WS81090	Cold Weather Paste Flux	2	57	30
328043	WS81130	Cold Weather Paste Flux	8	227	12
328044	WS81143	Cold Weather Paste Flux	16	454	12

GENERAL PURPOSE LIQUID SOFT SOLDER FLUX

Formulated for soldering stainless steel, Monel®, high-chrome alloys, Inconel®, nickel, copper, brass, ferrous alloys and many other metals

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

Aggressively removes oxide coatings and other impurities

Use for soft soldering



WC PROD NO	LENOX PROD NO	DESCRIPTION	WEIGHT		CTN QTY
			OZ	G	
328022	WS78209	General Purpose Liquid Soft Solder Flux	4	113	6

HIGH ACTIVITY, STAINLESS STEEL LIQUID FLUX

Formulated for soldering stainless steel and high-chrome alloys

Added bi-fluoride element increases etching ability

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

Aggressively removes oxide coatings and other impurities

Provides excellent capillary actions



WC PROD NO	LENOX PROD NO	DESCRIPTION	WEIGHT		CTN QTY
			OZ	G	
328021	WS78208	Stainless Steel Liquid Flux	4	113	6

ABRASIVES

OPEN MESH CLOTH

Grain bonded on both sides of cloth

Fully waterproof

Lasts longer than sand cloth

Leaves less gritty residue

180 Grit



WC PROD NO	LENOX PROD NO	DESCRIPTION	CARTON QTY
328028	WS80138	2 Yard Open Mesh Cloth	36
328029	WS80139	5 Yard Open Mesh Cloth	12
328001	WS78119	10 Yard Open Mesh Cloth	6
328483	WS80319	25 Yard Open Mesh Cloth	6

SAND CLOTH

Flexible cloth backing

Water resistant resin coating

Long lasting performance

120 Grit



WC PROD NO	LENOX PROD NO	DESCRIPTION	CARTON QTY
327999	WS78117	2 Yard Sand Cloth	36
328026	WS80136	5 Yard Sand Cloth	12
328027	WS80147	10 Yard Sand Cloth	6
328000	WS78118	25 Yard Sand Cloth	6

BRUSHES

FITTING BRUSH

High quality dense wire for long life, quick cleaning, and etching

Color coded by size for easy identification

TUBE CLEANING BRUSH

High quality dense wire for long life, quick cleaning, and etching

Color coded by size for easy identification

4-IN-1 BRUSH

High quality dense wire for long life, quick cleaning, and etching

Includes 1/2" & 3/4" fitting and tube cleaning brushes

GENERAL PURPOSE

4" brush can be used for applying flux, instant solder pastes, grease, and other general purpose brushing needs

5 brushes per package

WC PROD NO	LENOX PROD NO	DESCRIPTION	COLOR	CARTON QTY
328003	WS78121	1/2" Fitting Brush	●	12
328004	WS78122	3/4" Fitting Brush	○	12
328024	WS80114	1" Fitting Brush	●	12
328034	WS80186	1-1/4" Fitting Brush	●	12
328035	WS80187	1-1/2" Fitting Brush	●	12
328036	WS80188	2" Fitting Brush	●	12
328031	WS80145	1/2" Tube Cleaning Brush	●	12
328032	WS80146	3/4" Tube Cleaning Brush	○	12
328033	WS80147	1" Tube Cleaning Brush	●	12
328002	WS78120	Multi-Purpose 4-IN-1 Brush 3/4" & 1/2"		12
328025	WS80129	General Purpose Acid Brush 5-pack		12



ACCESSORIES

PLUMBER'S BREAD

Acts as a temporary water barrier during repairs

Dissolves in under 2 minutes

NSF/ANSI 60 certified

Includes insertion tool and 12 each 1/2" and 3/4" dissolvable plugs



DEBURRING TOOL KIT

Pencil deburring tool removes burrs



WC PROD NO	LENOX PROD NO	DESCRIPTION	CARTON QTY
328019	WS78188	10 piece Deburring Tool Kit	10

WC PROD NO	LENOX PROD NO	DESCRIPTION	CARTON QTY
328038	WS80324	PLUMBERS BREAD 1/2" and 3/4" Plugs	6

Limited Warranty

Worthington Cylinders warrants to the original owner that its products are free from defects in material and workmanship for the following period from the date of the original purchase: Torches and torch accessories are warranted for three years. Please provide proof of date of purchase when making claim.

All other products are covered under our manufacturer's warranty which guarantees the products to be free from defects in material and workmanship for a period of 90 days.

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 Worthington Cylinders.

WORTHINGTON CYLINDERS MAKES NO OTHER WARRANTIES, EXPRESS OR IMPLIED, CONCERNING THE PRODUCT OR THE MERCHANTABILITY OR FITNESS THEREOF FOR ANY PURPOSE. IN NO EVENT SHALL WORTHINGTON CYLINDERS BE LIABLE FOR INCIDENTAL OR CONSEQUENTIAL DAMAGES.



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www.WorthingtonCylinders.com