



JOINING TECHNOLOGIES PRODUCT CATALOG



Worthington Joining Technologies, a brand of Worthington Industries, markets a complete line of joining technologies products made by professionals for professionals, with 60-plus years of American manufacturing experience going into every product. Worthington products are precisely engineered, quality-tested and safety-assured for guaranteed performance letting our pro customers work without worry.

When you carry the Worthington line of torches, fuel, solder, brazing and accessories, you get more than just professional-grade products. You get the confidence of a direct, manufacturer-to-distributor relationship. We manufacture products and deliver straight to our distributors, so we control quality, customer service and lead time expectations.

No middlemen, no hassles, no headaches.

Worthington products are offered through wholesale plumbing and HVAC distributors.

Contact Worthington Joining Technologies Customer Service or a Representative near you:

For faxed orders, please send orders to:
614-840-4721

For emailed orders, please send orders to:
joiningtech@worthingtonindustries.com

For all phone inquiries, please dial:
877-974-8672 or **614-438-3013**

Worthington Cylinders Remit-To Address:
Worthington Cylinders
27406 Network Place
Chicago, IL 60673-1274

See price sheet for order minimums and pre-paid freight information.

SDS available in hard copy or downloadable from worthingtonjoiningtech.com

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JOINING TECHNOLOGIES



Tank Not Included

"B" AIR ACETYLENE KITS

Pack Higher Performance in an Easier-To-Carry Package

**FIT ANY BRAND
UNIVERSAL PARTS**

WOR PROD NO	DESCRIPTION	TIPS INCLUDED
331805	"B" Air Acetylene Kit	A3 3/16" Swirl Flame Tip
331959	"B" Air Acetylene Kit	A5 1/4" Swirl Flame Tip
331799	"B" Air Acetylene Kit	A5 1/4" & A14 1/2" Swirl Flame Tips
331811	"B" Air Acetylene Kit	AA500 1/4" Self-Igniting Swirl Flame Tip
331945	"B" 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

WOR: 331778 "B"
WOR: 331943 "MC"



AA Torch Handle

WOR: 331781



AA Hose

WOR: 331776 (12 1/2')
WOR: 331783 (25')



Tanktote Sleeve

WOR: 331942 (B)
WOR: 331973 (MC)



One Or More Swirl Flame, Or Self Igniting Swirl Flame Tips



Tank Key

WOR: 331775

See features and details on pages 6-8.



Tank Not Included

"MC" AIR ACETYLENE KITS

Pack Higher Performance in an Easier-To-Carry Package

**FIT ANY BRAND
UNIVERSAL PARTS**

WOR PROD NO	DESCRIPTION	TIPS INCLUDED
331953	"MC" Air Acetylene Kit	A5 1/4" Swirl Flame Tip
331812	"MC" Air Acetylene Kit	A3 3/16" & A8 5/16" Swirl Flame Tips
331960	"MC" Air Acetylene Kit	AA500 1/4" Self-Igniting Swirl Flame Tip
331949	"MC" Air Acetylene Kit	AA800 5/16" Self-Igniting Swirl Flame Tip

Tip size and quantity vary by kit. See chart above



Self-Igniting Tip Shown

STANDARD AIR ACETYLENE KITS

**FIT ANY BRAND
UNIVERSAL PARTS**

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

WOR PROD NO	DESCRIPTION	TIPS INCLUDED
331804	Air Acetylene Kit	A3 3/16" & A11 7/16" Swirl Flame Tips
331807	Air Acetylene Kit	A5 1/4" & A14 1/2" Swirl Flame Tips
331952	Air Acetylene Kit	A5 1/4" Swirl Flame Tip and B-MC Adapter
331956	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

WOR: 331944



AA Torch Handle

WOR: 331781



AA Hose

WOR: 331776
(12 1/2')
WOR: 331783
(25')



One Or More Swirl Flame, Or Self Igniting Swirl Flame Tips



Tank Key

WOR: 331775

See features and details on pages 6-8.



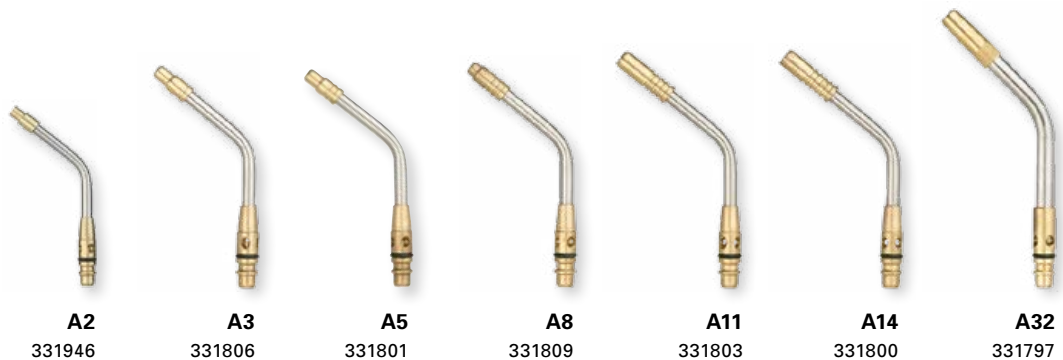
AIR ACETYLENE TORCH TIPS

Brass And Stainless Construction
 Replaceable Burn Tip, Orifice & "O" Ring
 Quick Connect

**FIT ANY BRAND
 UNIVERSAL PARTS**

Swirl Flame

WOR PROD NO	DESCRIPTION	TIP SIZE		PIPE SIZE		BRAZING	
		IN.	MM.	SOFT SOLDER	MM.	IN.	MM.
331946	A2-Light-duty HVAC tip	1/8	3	1/8-1/2	3-13	1/8-1/4	3-6
331806	A3-Light-medium-duty tip	3/16	4.8	1/4-1	6-25	1/8-1/2	3-13
331801	A5-Medium-duty tip	1/4	6.3	3/4-1-1/2	19-40	1/4-3/4	6-20
331809	A8-Medium-heavy-duty tip	5/16	7.9	1-2	25-50	1/2-1	13-25
331803	A11-Heavy-duty tip	7/16	11.1	1-1/2-3	40-75	7/8-1-5/8	22-41
331800	A14-Extra-heavy-duty tip	1/2	12.7	2-3-1/2	50-90	1-2	25-50
331797	A32-Heaviest-duty tip	5/8	15.9	4-6	100-150	1-1/2-4	40-100



Self-Igniting Swirl Flame

WOR PROD NO	DESCRIPTION	TIP SIZE		PIPE SIZE		BRAZING	
		IN.	MM.	SOFT SOLDER	MM.	IN.	MM.
331951	AA500-Medium-duty tip	1/4	6.3	3/4-1-1/2	20-40	1/4-3/4	6-20
331947	AA800-Medium-heavy-duty tip	5/16	7.9	1-2	25-50	1/2-1	13-25
331948	AA900-Extra-heavy-duty tip	1/2	12.7	2-4	50-100	1-2	25-50



AA500 331951 **AA800** 331947 **AA900** 331948

AIR ACETYLENE ACCESSORIES

**FIT ANY BRAND
UNIVERSAL PARTS**



"B" Tanktote Sleeve
WOR: 331942



"MC" Tanktote Sleeve
WOR: 331973



Air Acetylene Piston Regulator with TankTote Handle, Gauge Guard and 2" Easy Read Gauge
WOR: 331778 "B"
WOR: 331943 "MC"

- Protects 2" Easy Read Gauge from damage
- Transport tank easily
- Integrated tank key storage
- "B" tank = CGA520
- "MC" tank = CGA200
- Outlet = CGA021, 3/8-24 UNF LH thread



AA Torch Handle
WOR: 331781

- Comfortable grip with on/off valve and quick connect
- "A" Size fittings 3/8"
- Inlet is CGA021, 3/8-24 UNF LH thread



All Brass Piston Regulator With Gauge Guard
WOR: 331944

- Solid brass regulator with gauge B connection



Striker
WOR: 331774



Tank Key
WOR: 331775



Torch Heat Shield Cloth
WOR: 331939

- 9"x12" (22.86cm x 30.48cm)



AA Hose
WOR: 331776 (12 1/2')
WOR: 331783 (25')

- Metal strain relief keeps hose from kinking at fittings
- "A" size fittings 3/8"
- Fittings are CGA021, 3/8-24 UNF LH thread



"B" to "MC" Adapter
WOR: 331779

- Adapts "B" regulator to fit "MC" tanks
- "B" tank = CGA520
- "MC" tank = CGA200



Flint 5 pack
WOR: 331777

Made in the USA WITH GLOBAL COMPONENTS

AIR PROPANE / PROPYLENE KITS

Pack High Performance in a Durable Kit

**FIT ANY BRAND
UNIVERSAL PARTS**

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

WOR PROD NO	DESCRIPTION	TIPS INCLUDED
331950	Air Propane / Propylene Kit	LP3 3/8" & LP5 3/4" Swirl Flame Tips
331966	Air Propane / Propylene Kit	LP4 1/2" Swirl Flame Tip
331955	Air Propane / Propylene Kit	LP300 3/8" Self-Igniting Swirl Flame Tip
331963	Air Propane / Propylene Kit	LP400 1/2" Self-Igniting Swirl Flame Tip

Tip size and quantity vary by kit. See chart above



**Tank Not Included
Self-Igniting Tip Shown**

AIR PROPANE / PROPYLENE ACCESSORIES

**FIT ANY BRAND
UNIVERSAL PARTS**



**Air Propane / Propylene
Piston Regulator with
Gauge Guard and 2"
Easy Read Gauge**

WOR: 331940

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



**Air Propane /
Propylene
Torch Handle**

WOR: 331941

- Comfortable grip with on/off valve and quick connect
- Fitting size 9/16"
- Inlet is CGA023, 9/16-18 UNF



**12-1/2' Hose with
metal strain relief**

WOR: 331780

**25' Hose with
metal strain relief**

WOR: 331782

- Metal strain relief keeps hose from kinking at fittings
- Fittings are CGA023, 9/16-18 UNF



AIR PROPANE / PROPYLENE TIPS

Brass And Stainless Construction
 Replaceable Burn Tip, Orifice & "O" Ring
 Quick Connect

**FIT ANY BRAND
 UNIVERSAL PARTS**

Swirl Flame

MODELS	WOR PROD NO	TIP SIZE		COPPER TUBING SIZE WITH PROPANE				COPPER TUBING SIZE WITH MAP-PRO™			
		IN.	MM.	SOFT SOLDER		BRAZING		SOFT SOLDER		BRAZING	
P2	331964	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
P3	331967	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
P4	331972	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
P5	331954	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
P6	331957	1	25	1-1/2-4	40-100	3/4-2	19-50	1-1/2-6	40-150	3/4-4	19-100



P2 331964 **P3** 331967 **P4** 331972 **P5** 331954 **P6** 331957



Self-Igniting Swirl Flame

MODELS	WOR PROD NO	TIP SIZE		COPPER TUBING SIZE WITH PROPANE				COPPER TUBING SIZE WITH MAP-PRO™			
		IN.	MM.	SOFT SOLDER		BRAZING		SOFT SOLDER		BRAZING	
P300	331815	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
P400	331816	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



P300 331815 **P400** 331816



SELF-IGNITING HAND TORCHES

Maximum Heat Output, Durability, and Safety

Targeted Heat Output

For accurate and efficient performance

Cast Aluminum Construction

Provides outstanding durability

MODELS	WOR PROD NO	REPLACEMENT BURN TIPS	DESCRIPTION
LT92	361508	—	Ultra Swirl with Adjustable Flame
LT92R	331802	331795	Adjustable Ultra Swirl Replacement Assembly
LT91	361506	—	Swirl with Adjustable Flame
LT91R	331813	331794	Adjustable Swirl Replacement Assembly
LT90	361504	—	Swirl Flame Hand Torch
LT90R	331979	331794	Swirl Flame Replacement Assembly
LT60	361502	—	Heat Shrink Hand Torch
LT60R	331980	331798	Heat Shrink Replacement Assembly
LS20	361499	—	Self-Igniting 360° Swivel Torch
LS20R	331981	331814	Self-Igniting 360° Swivel Torch Replacement Assembly



REPLACEMENT HAND TORCH TIPS

Replacement Torch Tips for Worthington Hand Torches



LT92T
331795

LT90/91T
331794

LT60T
331798

LS20T
331814

MODELS	WOR PROD NO	REBUILD KITS PRODUCT 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.
LT90	361504	331979	331794	1/8-2	3-50	1/16-3/4	2-19	1/8-3	3-75	1/16-1	2-25
LT91	361506	331813	331794	1/8-2	3-50	1/16-3/4	2-19	1/8-3	3-75	1/16-1	2-25
LT92	361508	331802	331795	3/4-3	19-75	1/4-1	6-25	3/4-4	19-100	1/4-1-3/4	6-45
LT60	361502	331980	331798	—	—	—	—	—	—	—	—
LS20	361499	331981	331814	1/4-3	6-75	1/4-1	6-25	1/4-3-1/2	6-85	1/4-1-3/4	6-45





HAND TORCH KITS

Hot Performance. Cool Mobility.

Storage

- Improved carrying case holds two Worthington 14.1 oz gas cylinders
- Store and transport any cast-body aluminum torch
- Handle folds down for easy storage
- Added space for solder, flux and accessories

Protection

- Durable case protects fuel, torch and accessories



HOLDS:

- One cast-body aluminum torch
- Two 14.1 oz torch fuel cylinders
- One 1lb. solder
- One 8 oz. flux
- One 4-in-1 brush

Solder accessories & tools only included in WLT92STRL, shown below

WOR PROD NO	DESCRIPTION	HAND TORCH INCLUDED
354947	Case Only	—
354949	Hand Torch & Case Only	LT92
354954	Hand Torch, Case, MAP-Pro™ Cylinders	LT92
354957	Hand Torch, Case, Transport Canada Approved MAP-Pro™ Cylinders	LT92
354951	Hand Torch, Case, MAP-Pro™ Cylinders, Solder, Flux, Brush	LT92
360878	Hand Torch, Case, MAP-Pro™ Cylinders	LT91
360879	Hand Torch, Case, Transport Canada Approved MAP-Pro™ Cylinders	LT91



WLT9C

WOR: 354947

- Carrying Case Only



WLT92C

WOR: 354949

- Carrying Case
- LT92 Hand Torch



**WLT92CF/
WLT92CF-TC***

**WOR: 354954 (WLT92CF)
354957 (WLT92CF-TC*)**

- Carrying Case
- LT92 Hand Torch
- 2 - 14.1 Oz. MAP-Pro™ Cylinders*



WLT92STRL

WOR: 354951

- Carrying Case
- LT92 Hand Torch
- 2 - 14.1 Oz. MAP-Pro™ Cylinders
- 1 Lb. Sterling Solder
- 8 Oz. Water-Soluble Flux
- 4-In-1 Brush



**WLT91CF/
WLT91CF-TC***

**WOR: 360878 (WLT91CF)
360879 (WLT91CF-TC*)**

- Carrying Case
- LT91 Hand Torch
- 2 - 14.1 Oz. MAP-Pro™ Cylinders*

*Transport Canada Approved MAP-Pro™ Cylinders



FUEL

WOR PROD NO	DESCRIPTION	CASE PACK
		QTY.
332399	14.1 oz NRT Propane Gas - US	12
332400	14.1 oz NRT Propane Gas - CANADA	12
332401	14.1 oz NRT MAP-Pro™ Gas - US	12
332402	14.1 oz NRT MAP-Pro™ Gas - CANADA	12

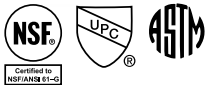


Made in the USA 
WITH GLOBAL COMPONENTS

PREMIUM LEAD-FREE SOLDER

Meets Highest Product Standards

- NSF 61 Certification for safe use in potable water applications



Sterling Lead-Free

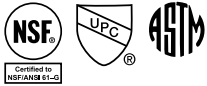
- Lowest melting temperature: 410° F
- Highest tensile strength: 7130 psi
- Best flowing lead-free solder available
- Formula advantages

100% Environmentally Safe

- Completely free of antimony or nickel

WOR PROD NO	DESCRIPTION	WEIGHT		DIAMETER		CARTON QTY.
		LB.	G.	IN.	MM.	
331755	Sterling Wire Spool	1	454	.118	3	50
331842*	Sterling Wire Spool	1	454	.118	3	50
331841	Sterling Wire Spool	1	454	.118	3	20
331843	Sterling Wire Spool	1	454	.062	1.6	50
331897	Sterling Wire Spool	1/4	113	.118	3	50
331896	Sterling Wire Spool	1/2	227	.118	3	50
331898	Sterling Wire Spool	5	2270	.118	3	10
331895	Sterling Wire Spool	5	2270	.062	1.6	10
331899	Sterling Sm Ingot	5	2270	—	—	10

*Spool is not sold in an individual box



Premium Silver Lead-Free

- Low melting temperature: 440° F
- High tensile strength: 6900 psi
- Ideal for use on large diameter pipe
- Wide pasty range (440°-640° F) allows for more working time

WOR PROD NO	DESCRIPTION	WEIGHT		DIAMETER		CARTON QTY.
		LB.	G.	IN.	MM.	
331756	Silver Wire Spool	1	454	.118	3	50
331859*	Silver Wire Spool	1	454	.118	3	50
331844	Silver Wire Spool	1	454	.118	3	20
331900	Silver Wire Spool	1/4	113	.118	3	50

*Spool is not sold in an individual box



Select Lead-Free

- Low melting temperature: 419° F
- High tensile strength: 6950 psi
- Increased flow properties
- Formula advantages

WOR PROD NO	DESCRIPTION	WEIGHT		DIAMETER		CARTON QTY.
		LB.	G.	IN.	MM.	
331754	Lead-Free Wire Spool	1	454	.118	3	50
331838*	Lead-Free Wire Spool	1	454	.118	3	50
331836	Lead-Free Wire Spool	1	454	.093	2.4	50
331894	Lead-Free Wire Spool	1/4	113	.118	3	50
331893	Lead-Free Wire Spool	1/2	227	.118	3	50

*Spool is not sold in an individual box



Ranger Lead-Free

- Designed to imitate the flow characteristics of the federally banned tin-lead solders for potable water systems
- Low melting temperature: 460° F
- Wide pasty range (460°-660° F) for both tight and loose fitting connections

WOR PROD NO	DESCRIPTION	WEIGHT		DIAMETER		CARTON QTY.
		LB.	G.	IN.	MM.	
374243	Ranger Wire Spool	1	454	.062	1.6	50
374240	Ranger Wire Spool	1	454	.118	3	50



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



WOR PROD NO	DESCRIPTION	WEIGHT		DIAMETER		CARTON QTY.
		LB.	G.	IN.	MM.	
331762	Silver Bearing Alloy Spool	1	454	.118	3	50
331910	Silver Bearing Alloy Wire Spool	1/4	113	.118	3	50



97/3 Lead-Free

- NSF 61 Certification for safe use in potable water applications
- Lead-Free Tin-Copper Solder
- Melting temperature: 445° F
- Melts, flows and performs better than 95/5
- Tensile strength: 5800 psi

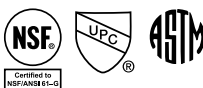


WOR PROD NO	DESCRIPTION	WEIGHT		DIAMETER		CARTON QTY.
		LB.	G.	IN.	MM.	
331761	97/3 Wire Spool	1	454	.118	3	50
331864	97/3 Wire Spool	1	454	.062	1.6	50
331904	97/3 Wire Spool	1/4	113	.118	3	20
331903	97/3 Wire Spool	1/2	227	.118	3	50



95/5 Lead-Free

- Lead-Free Tin-Antimony Solder
- Narrow pasty range
- Melting temperature: 455° F
- Tensile strength: 5500 psi
- ASTM B-32



WOR PROD NO	DESCRIPTION	WEIGHT		DIAMETER		CARTON QTY.
		LB.	G.	IN.	MM.	
331760	95/5 Wire Spool	1	454	.118	3	50
331861	95/5 Wire Spool	1	454	.093	2.4	50
331902	95/5 Wire Spool	1/4	113	.118	3	50
331901	95/5 Wire Spool	1/2	227	.118	3	50

Made in the USA WITH GLOBAL COMPONENTS



HVAC 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

WOR PROD NO	DESCRIPTION	WEIGHT		DIAMETER		CARTON
		LB.	G.	IN.	MM.	QTY.
331863	96/4 HVAC Wire Spool	1	454	.118	3	10
331862	96/4 HVAC Wire Spool	1	454	.062	1.6	10



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

WOR PROD NO	DESCRIPTION	WEIGHT		DIAMETER		CARTON
		LB.	G.	IN.	MM.	QTY.
331860	94/6 HVAC Wire Spool	1	454	.118	3	10

SPECIALTY LEAD-FREE SOLDER



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

WOR PROD NO	DESCRIPTION	WEIGHT		DIAMETER		CARTON
		LB.	G.	IN.	MM.	QTY.
331865	Acid Core Wire Spool	1	454	.062	1.6	50
331866	Acid Core Wire Spool	1	454	.125	3.2	50
331907	Acid Core Wire Spool	1/2	227	.062	1.6	18



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

WOR PROD NO	DESCRIPTION	WEIGHT		DIAMETER		CARTON
		LB.	G.	IN.	MM.	QTY.
331868	Rosin Core Wire Spool	1	454	.062	1.6	50
331867	Rosin Core Wire Spool	1	454	.031	.8	50
331870	Rosin Core Wire Spool	1	454	.040	1	50
331869	Rosin Core Wire Spool	1	454	.050	1.3	50
331871	Rosin Core Wire Spool	1	454	.100	2.5	50
331872	Rosin Core Wire Spool	1	454	.125	3.2	50
331909	Rosin Core Wire Spool	1/4	113	.062	1.6	50
331908	Rosin Core Wire Spool	1/2	227	.062	1.6	18



LEADED SOLDER

For Use Only In Non-Potable Water Applications

50/50 Leaded

- 50% Tin, 50% Lead Solder

WOR PROD NO	DESCRIPTION	WEIGHT		DIAMETER		CARTON
		LB.	G.	IN.	MM.	QTY.
331753	50/50 Wire Spool	1	454	.125	3.2	50
331887	50/50 Wire Spool	1/4	113	.125	3.2	50
331886	50/50 Wire Spool	1/2	227	.125	3.2	50
331888	50/50 Wire Spool	5	2270	.125	3.2	10

40/60 Leaded

- 40% Tin, 60% Lead Solder

WOR PROD NO	DESCRIPTION	WEIGHT		DIAMETER		CARTON
		LB.	G.	IN.	MM.	QTY.
331881	40/60 Wire Spool	1/2	227	.125	3.2	50
331850	40/60 Wire Spool	1	454	.125	3.2	50

60/40 Leaded

- 60% Tin, 40% Lead Solder

WOR PROD NO	DESCRIPTION	WEIGHT		DIAMETER		CARTON
		LB.	G.	IN.	MM.	QTY.
331858	60/40 Wire Spool	1	454	.125	3.2	50

SPECIALTY LEADED SOLDER

For Use Only In Non-Potable Water Applications



Rosin Core Leaded

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

WOR PROD NO	DESCRIPTION	WEIGHT		DIAMETER		CARTON
		LB.	G.	IN.	MM.	QTY.
331855	60/40 Rosin Core Wire Spool	1	454	.062	1.6	50
331856	60/40 Rosin Core Wire Spool	1	454	.031	.8	50
331854	60/40 Rosin Core Wire Spool	1	454	.100	2.5	50
331857	60/40 Rosin Core Wire Spool	1	454	.125	3.2	50
331849	40/60 Rosin Core Wire Spool	1	454	.062	1.6	50

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

WOR PROD NO	DESCRIPTION	WEIGHT		DIAMETER		CARTON
		LB.	G.	IN.	MM.	QTY.
331846	30/70 Acid Core Wire Spool	1	454	.125	3.2	50
331852	60/40 Acid Core Wire Spool	1	454	.062	1.6	50
331847	40/60 Acid Core Wire Spool	1	454	.062	1.6	50
331880	3/2/95 Acid Core Wire Spool	1/2	227	.125	3.2	50



EXTRUDED LEADED BARS

WOR PROD NO	DESCRIPTION	WEIGHT		DIAMETER		CARTON
		LB.	G.	IN.	MM.	QTY.
331851	50/50 Extruded Bar	1	454	—	—	50
331885	50/50 Extruded Meter Bar	3/8	170	—	—	50
331882	50/50 Extruded Tri Bar	1/4	113	1/4	6.4	50
331883	50/50 Extruded Tri Bar	13/32	184	5/16	7.9	50
331884	50/50 Extruded Tri Bar	1/2	227	7/16	11.1	50
331853	60/40 Extruded Bar	1	454	—	—	50
331848	40/60 Extruded Bar	1	454	—	—	50
331845	30/70 Extruded Bar	1	454	—	—	50



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 number.
- Certificate of Analysis and Certification to Specification available if required

WOR PROD NO	DESCRIPTION	ALLOY	CARTON
			QTY.
331878	Pure Tin Bar	Sn100	45-70 lb.
331873	#3 Babbitt (Willard #3) Genuine Sm 5.5# Ingot	Sn87 Sb10 Cu3	5.5 lb.
331876	B23-G2 89/7.5/3.5 Babbitt Lg 17.5# Ingot	Sn89 Sb7.5 Cu3.5	17.5 lb.
331877	B23-G2 Babbitt Sm 5.5# Ingot	Sn89 Sb7.5 Cu3.5	5.5 lb.
331875	4x Nickel Babbitt Sm 5.5# Ingot	Sn89 Sb7.5 Cu3.0 Ni0.5	5.5 lb.
331874	#4 Babbitt Pb96 Sn4 S8.5# avg Sm Ingot	Pb96 Sb4	8 lb.
331879	Univ Babbitt B23-G7 8.5# avg Sm Ingot	Pb75.5 Sb15 Sn9.5	9 lb.



QUICKCOIL® DUCTILE BRAZING ALLOYS

Non-Stop Brazing with a Lot Less Waste and a Lot Less Wasted Time.

Up To 22 Feet Of Continuous Brazing

No more time wasted swapping out 20-inch rods. That's pure productivity.

Waste Drastically Reduced

With rods, you lose up to 20% of your alloy in stubs that you throw away or braze together. QuickCoil cuts waste to near zero.

Easy Bending With No Preheating Required

Just finger-bend it any way you want.

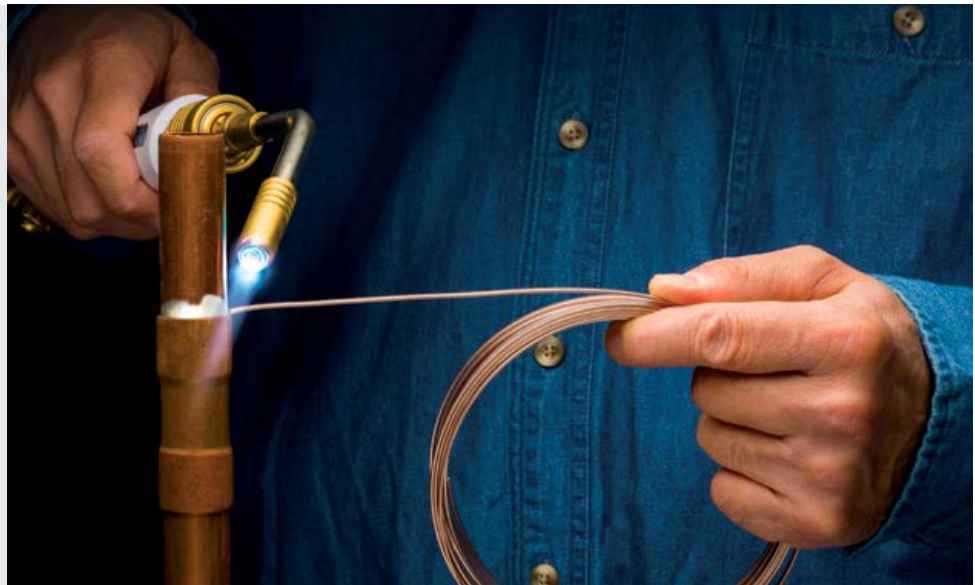
Easy Staging And Storing

Just loop QuickCoil over your tank between jobs – no need for extra storage containers.

QUICKCoil®

Continuous Phos-Copper Brazing

We've developed a way to make silver phosphorus copper brazing alloy more ductile and to offer it in 5, 10, & 22-foot coils. The result is QuickCoil® Ductile Brazing Alloy, the perfect alternative to those stiff traditional brazing rods that waste time and money.



Coil-to-Rod Comparison

COIL LENGTH	5'	10'	22'
20" Rods	3 Rods	6 Rods	13.2 Rods



QUICKCOIL® DUCTILE BRAZING ALLOYS

WOR PROD NO	DESCRIPTION	LENGTH		AWS 5.8 SPEC	SOLIDUS TEMPERATURE	LIQUIDUS TEMPERATURE	CARTON QTY.
		FT.	M.				
360311	5% Silver QuickCoil®	22	6.7	BCuP-3	1190°F, 643°C	1495°F, 813°C	25
360310	5% Silver QuickCoil®	10	3.0	BCuP-3	1190°F, 643°C	1495°F, 813°C	25
360309	5% Silver QuickCoil®	5	1.5	BCuP-3	1190°F, 643°C	1495°F, 813°C	25
360314	6% Silver QuickCoil®	22	6.7	BCuP-4	1190°F, 643°C	1325°F, 718°C	25
360313	6% Silver QuickCoil®	10	3.0	BCuP-4	1190°F, 643°C	1325°F, 718°C	25
360312	6% Silver QuickCoil®	5	1.5	BCuP-4	1190°F, 643°C	1325°F, 718°C	25
360321	PowerGlide® QuickCoil®	22	6.7	Proprietary	1190°F, 643°C	1465°F, 796°C	25
360319	PowerGlide® QuickCoil®	10	3.0	Proprietary	1190°F, 643°C	1465°F, 796°C	25
360318	PowerGlide® QuickCoil®	5	1.5	Proprietary	1190°F, 643°C	1465°F, 796°C	25
360317	15% Silver QuickCoil®	22	6.7	BCuP-5	1190°F, 643°C	1475°F, 802°C	25
360316	15% Silver QuickCoil®	10	3.0	BCuP-5	1190°F, 643°C	1475°F, 802°C	25
360315	15% Silver QuickCoil®	5	1.5	BCuP-5	1190°F, 643°C	1475°F, 802°C	25
360900	SilTron® 15 QuickCoil®	22	6.7	Patented	1044°F, 562°C	1348°F, 729°C	25
360899	SilTron® 15 QuickCoil®	10	3.0	Patented	1044°F, 562°C	1348°F, 729°C	25
360322	SilTron® 15 QuickCoil®	5	1.5	Patented	1044°F, 562°C	1348°F, 729°C	25

SILTRON® 15 QUICKCOIL® DUCTILE BRAZING ALLOY

Faster Brazing

Brazing temp is 1348° F, that's 127° F cooler than BCuP-5, regular 15% Silver for faster, more efficient brazing time.

Low Oxidation

Clean and visible bright braze vs. BCuP-5 which is very black and difficult to see any imperfections.

Highly Ductile

Bend rod over 180° without heating for easy use.

Siltron® 15

SOLIDUS	LIQUIDUS	RECOMMENDED BRAZING RANGE
1044° F	1348° F	1250 - 1370° F
562° C	729° C	678° - 743° C



BCuP-5, 15% vs. SilTron® 15



BRAZING RODS

Flat: .125" x .050" x 20" or Round: .093" x 20"
 3.175mm x 1.27mm x 508mm or 2.38mm x 508mm

Brazing Rods For Joining Copper, Brass And Bronze

Packaged In Convenient Plastic Tubes

1lb / 454g & 1/4lb / 113g

Color-Coded Caps for Easy Composition Identification

15% Silver Brazing Rods

- 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. When joining brass use Worthington Brazing Flux (331932)
- 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



WOR PROD NO	DESCRIPTION	CARTON QTY.
361211	Round Brazing Rods	25 lb. Bulk
361214	Flat Brazing Rods	25 lb. Bulk
361212	Round Brazing Rods	12 x 24 stick tubes
331740	Flat Brazing Rods	12 x 28 stick tubes
361213	Round Brazing Rods	12 x 6 stick tubes
331741	Flat Brazing Rods	12 x 7 stick tubes

SilTron® 15 Brazing Rods

- Patented formulation
- Lower melting temperature, less oxidation and brighter finish than BCuP-5
- Phosphorus acts as a fluxing agent when joining copper to copper. When joining brass use Worthington Brazing Flux (331932)
- Solidus Temperature: 1044°F, 562°C
- Liquidus Temperature: 1348°F, 729°C
- Recommended Brazing Range: 1250-1370°F, 678-743°C



WOR PROD NO	DESCRIPTION	CARTON QTY.
361215	Round Brazing Rods	25 lb. Bulk
360896	Flat Brazing Rods	25 lb. Bulk
361216	Round Brazing Rods	12 x 24 stick tubes
360897	Flat Brazing Rods	12 x 28 stick tubes

Made in the USA WITH GLOBAL COMPONENTS

6% Silver Brazing Rods

- 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. When joining brass use Worthington Brazing Flux (331932)
- 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



WOR PROD NO	DESCRIPTION	CARTON
		QTY.
361204	Round Brazing Rods	25 lb. Bulk
361207	Flat Brazing Rods	25 lb. Bulk
361205	Round Brazing Rods	12 x 24 stick tubes
331751	Flat Brazing Rods	12 x 28 stick tubes
361206	Round Brazing Rods	12 x 6 stick tubes
331752	Flat Brazing Rods	12 x 7 stick tubes

PowerGlide® Brazing Rods

- Proprietary formulation
- PowerGlide is an economical alternative to 15% silver. It melts and performs similar to BCuP-5 alloy.
- 6% Silver, 6.1% Phosphorus, remainder copper.
- Solidus Temperature: 1190°F, 643°C
- Liquidus Temperature: 1465°F, 796°C
- Recommended Brazing Range: 1275-1550°F, 691-840°C
- Direct cross-reference to Dynaflow®*



WOR PROD NO	DESCRIPTION	CARTON
		QTY.
361208	Round Brazing Rods	25 lb. Bulk
360893	Flat Brazing Rods	25 lb. Bulk
361209	Round Brazing Rods	12 x 24 stick tubes
360894	Flat Brazing Rods	12 x 28 stick tubes



*Dynaflow is a registered trademark of Harris Products Group

5% Silver Brazing Rods

- 5% Silver, 6% Phosphorus, remainder 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 Worthington Brazing Flux (331932)
- 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



WOR PROD NO	DESCRIPTION	CARTON QTY.
361200	Round Brazing Rods	25 lb. Bulk
361203	Flat Brazing Rods	25 lb. Bulk
361201	Round Brazing Rods	12 x 24 stick tubes
331746	Flat Brazing Rods	12 x 28 stick tubes
361202	Round Brazing Rods	12 x 6 stick tubes
331747	Flat Brazing Rods	12 x 7 stick tubes

2% Silver Brazing Rods

- 2% Silver, 7% Phosphorus, remainder Copper
- Phosphorus acts as a fluxing agent when joining copper to copper. When joining brass use Worthington Brazing Flux (331932)
- Solidus Temperature: 1190°F, 643°C
- Liquidus Temperature: 1450°F, 788°C
- Recommended Brazing Range: 1350-1500°F, 730-815°C
- Meets AWS BCuP-6



WOR PROD NO	DESCRIPTION	CARTON QTY.
361197	Round Brazing Rods	25 lb. Bulk
360887	Flat Brazing Rods	25 lb. Bulk
361198	Round Brazing Rods	12 x 24 stick tubes
360888	Flat Brazing Rods	12 x 28 stick tubes

0% Silver Brazing Rods

- 0% Silver, 7.25% Phosphorus, remainder Copper
- Phosphorus acts as a fluxing agent when joining copper to copper. When joining brass use Worthington Brazing Flux (331932)
- 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



WOR PROD NO	DESCRIPTION	CARTON QTY.
361193	Round Brazing Rods	25 lb. Bulk
361194	Flat Brazing Rods	25 lb. Bulk
361195	Round Brazing Rods	12 x 24 stick tubes
331738	Flat Brazing Rods	12 x 28 stick tubes
361196	Round Brazing Rods	12 x 6 stick tubes
331739	Flat Brazing Rods	12 x 7 stick tubes



BRAZING WIRE

1105 Silver Brazing Wire

- 40% Silver, remainder proprietary
- Cost-effective alternative to 1205 BAg-7 alloy with 56% silver
- Low liquidus temperature speeds production
- Excellent choice for use with other alloys in step brazing processes
- Solidus Temperature: 1068°F, 576°C
- Liquidus Temperature: 1105°F, 596°C
- Recommended Brazing Range: 1100-1200°F, 538-649°C

WOR PROD NO	DESCRIPTION	WEIGHT		CARTON
		TROY OZ.	G.	QTY.
360901	Brazing Wire	1	31	6
360902	Brazing Wire	3	93	6
360903	Brazing Wire	5	156	6

1205 Silver Brazing Wire

- AWS-A5.8 BAg-7
- 56% Silver, 17% Zinc, 5% Tin, remainder Copper
- Solidus Temperature: 1145°F, 618°C
- Liquidus Temperature: 1205°F, 652°C
- Recommended Brazing Range: 1205-1400°F, 650-760°C

WOR PROD NO	DESCRIPTION	WEIGHT		CARTON
		TROY OZ.	G.	QTY.
331748	Brazing Wire	1	31	6
331749	Brazing Wire	3	93	6
331750	Brazing Wire	5	156	6

1274 Silver Brazing Wire

- 24% Silver, remainder proprietary
- Cost-effective alternative to 45% silver brazing filler metals
- Solidus Temperature: 1130°F, 610°C
- Liquidus Temperature: 1274°F, 690°C
- Recommended Brazing Range: 1120-1400°F, 608-759°C

WOR PROD NO	DESCRIPTION	WEIGHT		CARTON
		TROY OZ.	G.	QTY.
360907	Brazing Wire	1	31	6
360908	Brazing Wire	3	93	6
360909	Brazing Wire	5	156	6

1370 Silver Brazing Wire

- AWS-A5.8 BAg-5
- 45% Silver, 25% Zinc, remainder Copper
- Solidus Temperature: 1225°F, 663°C
- Liquidus Temperature: 1370°F, 743°C
- Recommended Brazing Range: 1370-1550°F, 740-845°C

WOR PROD NO	DESCRIPTION	WEIGHT		CARTON
		TROY OZ.	G.	QTY.
331742	Brazing Wire	1	31	6
331744	Brazing Wire	3	93	6
331745	Brazing Wire	5	156	6



SOLDERING FLUX

Aids removal of oxides and impurities and helps draw solder into joints to provide better adhesion of alloy to pipe



Water Soluble Soldering Flux

- NSF 61 certified safe for potable water applications
- Water soluble lead-free flux
- Excellent performance with any lead-free Solder
- Unit lot numbering ensures complete traceability
- Meets ASTM B-813 and Copper Development Association requirements.
- Recommended soldering range: 200-600°F (93-315°C)
- RoHS Compliant

WOR PROD NO	DESCRIPTION	WEIGHT		CARTON
		OZ.	G.	QTY.
331771	Water Soluble Flux	1.7	48	30
331934	Water Soluble Flux	8	227	12
331933	Water Soluble Flux	16	454	12
333516	Water Soluble Flux	16	454	6



Paste Soldering 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
- Conforms to O-F-506C, Type 1, Form B; MIL-S-6872A.
- Recommended soldering range: 200-600°F (93-315°C)
- RoHS Compliant

WOR PROD NO	DESCRIPTION	WEIGHT		CARTON
		OZ.	G.	QTY.
331770	Paste Flux	2	57	30
331931	Paste Flux	8	227	12
331917	Paste Flux - Bottle with Brush Cap	4	113	5
331930	Paste Flux	16	454	12



General Purpose Liquid Soft Soldering Flux

- 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

WOR PROD NO	DESCRIPTION	WEIGHT		CARTON
		OZ.	G.	QTY.
331928	General Purpose Liquid Soft Solder Flux - USA	4	113	6
334052	General Purpose Liquid Soft Solder Flux - CANADA	4	113	6



High Activity, Stainless Steel Liquid Soldering Flux

- Excellent for use on Stainless Steel, Monel, High-Chrome Alloys, Inconel, Nickel, Copper, Brass, Ferrous Alloys and many more metals. It is not recommended for Aluminum and Magnesium
- 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
- Recommended soldering range: 200-800°F (95-425°C).
- RoHS compliant

WOR PROD NO	DESCRIPTION	WEIGHT		CARTON
		OZ.	G.	QTY.
331929	Stainless Steel Liquid Flux - USA	4	113	6
334053	Stainless Steel Liquid Flux - CANADA	4	113	6

BRAZING FLUX



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 filler metals: BAg, BCuP AWS A5.31-91, Type FB3A
- Recommended brazing range: 1000-1600°F (540-870°C).
- RoHS compliant
- Conforms to MS 3410; AWS A5.31-91, Type FB3A; and Federal Specification 0-F-499, Type B

WOR PROD NO	DESCRIPTION	WEIGHT		CARTON
		OZ.	G.	QTY.
331932	Silver Brazing Paste Flux	6	170	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

WOR PROD NO	DESCRIPTION	CARTON QTY.
331923	2 Yard Open Mesh Cloth	36
331924	5 Yard Open Mesh Cloth	12
331919	10 Yard Open Mesh Cloth	6
331921	25 Yard Open Mesh Cloth	6



Sand Cloth

- Flexible cloth backing
- Water resistant resin coating
- Long lasting performance
- 120 Grit

WOR PROD NO	DESCRIPTION	CARTON QTY.
331768	2 Yard Sand Cloth	36
331925	5 Yard Sand Cloth	12
331920	10 Yard Sand Cloth	6
331922	25 Yard Sand Cloth	6

PLUMBING KITS



Premium 8 oz Soldering Kit

WOR: 331935

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



Basic 4 oz Soldering Kit

WOR: 331769

- Includes everything needed to make professional quality repairs: Worthington Lead-Free 4 oz solder, Worthington 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

WOR PROD NO	DESCRIPTION	WEIGHT OZ.	G.	CARTON QTY.
331912	Cold Coat Thermal Shield Gel Spray	32	94.6	6



Fitting Brush



Tube Cleaning Brush



4-in-1 Brush



General Purpose Brushes

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

WOR PROD NO	DESCRIPTION	COLOR	CARTON QTY.
331766	1/2" Fitting Brush	●	12
331767	3/4" Fitting Brush	○	12
331916	1" Fitting Brush	●	12
331915	1-1/4" Fitting Brush	●	12
331914	1-1/2" Fitting Brush	●	12
331913	2" Fitting Brush	●	12
331772	1/2" Tube Cleaning Brush	●	12
331773	3/4" Tube Cleaning Brush	○	12
331938	1" Tube Cleaning Brush	●	12
331764	Multi-Purpose 4-IN-1 Brush 3/4" & 1/2"		12
331765	General Purpose Acid Brush 5-pack		12

REFRIGERANT RECOVERY CYLINDERS

High-quality refrigerant cylinders in a range of sizes and specifications

No limit to the number of times Worthington recovery cylinders can be recertified



MODEL	SMALL RECOVERY		LARGE RECOVERY		
	30 LBS.	50 LBS.	123 LBS.	239 LBS.	1,000 LBS.
Height (IN.)	17.7	18.8	54.8	48.7	57.3
Water Capacity (LBS.)	26.2	47.7	123	239	1,000
Nominal Tare Weight (LBS.)	17	27.8	58	78.5	334
Cylinder Diameter (IN.)	9.1	12.3	10	14.7	30
Cylinder Volume (CU. IN)	726	1,324	3,405	6,515	27,680
Collar Diameter (IN.)	6.5	6.5	3.9	11.4	16
Collar Height (IN.)	5.1	5.1	—	6.4	6.9
Footring Diameter (IN.)	7.8	7.8	10	14.5	22
STANDARD SPECIFICATION	DOT-4BA400	DOT-4BA400	DOT-4BW400	DOT-4BA260	DOT-4BA260
Service Pressure (PSIG)	400	400	400	260	260
Test Pressure (PSIG)	800	800	800	520	520
OPTIONAL SPECIFICATION	—	—	—	DOT-4BW400	DOT-4BW400
Service Pressure (PSIG)	—	—	—	400	400
Test Pressure (PSIG)	—	—	—	800	800

All tare weights and dimensions are approximate.

To convert to refrigerant capacity:
Maximum allowable gross cylinder fill weight is 0.8 x water capacity x specific gravity of the refrigerant recovered @ 77°/25°C + cylinder tare weight.

Cylinder photos are not shown to scale.

THREE-YEAR LIMITED WARRANTY

Worthington® LS20, LS20R, LS20T, LT2301, Air Acetylene Torch Kits, Air Acetylene Accessories, Air Acetylene Torch Tips, Air Propane/Propylene Torch Kits, Air Propane/Propylene Torch Accessories, Air Propane/Propylene Torch Tips

Worthington® warrants to the original purchaser that this product is free from defects in material and workmanship for three years from the date of purchase. This warranty is valid for all purchases of the LS20, LS20R, LS20T, LT2301, Air Acetylene Torch Kits, Air Acetylene Accessories, Air Acetylene Torch Tips, Air Propane/Propylene Torch Kits, Air Propane/Propylene Torch Accessories, and Air Propane / Propylene Torch Tips 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. Worthington recommends, but does not require, the use of replacement parts specifically manufactured by Worthington for this product. Improper or incorrectly performed repair or modification of the product, or the use of replacement parts other than those manufactured for that purpose by Worthington, that causes damage to your product may void this warranty.

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

To make a claim under this Limited Three Year Warranty, contact any Worthington distributor or contact Worthington directly at 1-877-974-8672. A service representative will assist you. Please provide proof of date of purchase when making a claim.

Worthington makes no other warranties concerning the product, and limits any implied warranties to the length of this Limited Three Year Warranty. In no event shall Worthington be liable for incidental or consequential damages. Some states do not allow limitations on how long an implied warranty lasts or 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.

LIFETIME LIMITED WARRANTY

Worthington® LT60, LT60R, LT60T, LT8250, LT90, LT90R, LT90T, LT91, LT92T, LT91R, LT91T, LT92, LT92R, LT92T

Worthington® warrants to the original purchaser that this product is free from defects in material and workmanship for as long as you own your Worthington torch. This warranty is valid for all purchases of **Worthington® LT60, LT60R, LT60T, LT8250, LT90, LT90R, LT90T, LT91, LT92T, LT91R, LT91T, LT92, LT92R, LT92T** torches, replacement torch assemblies, and replacement torch tips 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. Worthington recommends, but does not require, the use of replacement parts specifically manufactured by Worthington for this product. Improper or incorrectly performed repair or modification of the product, or the use of replacement parts other than those manufactured for that purpose by Worthington, that causes damage to your product may void this warranty.

Worthington will repair the product if it proves to be defective in materials or workmanship. At the choice of Worthington, a replacement product may be provided instead of repairing a defective product. The sole obligation of Worthington 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 Worthington distributor or contact Worthington directly at 1-877-974-8672.

A service representative will assist you. Please provide proof of date of purchase when making a claim.

Worthington makes no other warranties concerning the product. In no event shall Worthington 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.

