

Jules Borel & Co.

85<sup>th</sup> Anniversary

# Tools

*Catalog for Jewelers*



Call 800-776-6858

Fax 800-776-6862

Web [www.julesborel.com](http://www.julesborel.com)

**Borel**

## Procedures & Policies

### Ordering Procedures

For your convenience, an order form is available on page 3 for copying. You may also request forms by phone or print from [julesborel.com](http://julesborel.com).

#### By phone 800-776-6858

1. Call our order desk between 8 am and 5 pm. Central time weekdays or leave an order on our recorder 24 hours a day.
2. Tell us your phone number with area code.
3. Specify any special instructions.
4. State stock number, description and quantity needed.

#### By fax 800-776-6862

1. Use a copy of the Order Form on page 3.
2. Be sure to include your store name and phone number with area code.
3. Specify any special instructions.
4. Write stock number, description and quantity needed.

#### By the internet at [www.julesborel.com](http://www.julesborel.com)

1. Log in.
2. Follow the links to the index and pages.
3. Click on an item's stock number to order.
4. Check out when finished.

*If ordering for the first time, please call the order desk with your payment information.*

### Shipping Instructions

Please give precise shipping instructions. If you don't have a shipping preference we will ship via "the best way" which balances economy, quick delivery and security. Some items have restrictions and special requirements on how they can be shipped.

#### Shipping Choices

- FedEx Overnight AM     ■ FedEx Second Day
- FedEx Overnight PM     ■ FedEx Saver
- US Mail First Class     ■ US Priority Mail
- UPS Ground     ■ UPS COD
- FedEx COD



## Table of Contents

Information .....	2
Abrasives .....	5
Adhesives .....	23
Beading .....	25
Benches .....	35
Bench Accessories .....	38
Books .....	55
Brushes .....	59
Bufs .....	64
Burnishing .....	72
Burs .....	74
Casting .....	87
Cleaning .....	117
Diamond Tools .....	130
Drilling .....	137
Engraving .....	144
Files .....	153
Flexshafts .....	160
Gauges .....	166
Gold Testing .....	170
Hammers .....	172
Lathes .....	176
Magnifiers .....	177
Mandrels .....	185
Plating .....	191
Pliers & Shears .....	194
Polishing .....	210
Rolling Mills .....	221
Sawing .....	224
Scales .....	227
Screwdrivers .....	229
Soldering .....	231
Supplies .....	248
Tumbling .....	255
Tweezers .....	259
Watchmaking .....	263
Watch Winders .....	268
Wire & Metal .....	270
Conversion Charts .....	272
Index by Numbers .....	273
Index by Product Name .....	279

## Procedures & Policies

### New Customers

We offer immediate, open account convenience to jewelers and watchmakers rated 1 or 2 by the Jewelers Board of Trade. For non-rated customers, select one of the other methods of payment below or request our credit application form. Please allow two weeks for us to process your credit request.

### Methods of Payment

1. Jules Borel & Co. Open Credit Account, with terms of 30-days net.
2. Mastercard, Visa, American Express or Discover
3. COD Money Order

### Pricing & Products

*Prices in this catalog are intended as a guideline. Fluctuations in raw material costs, manufacturing costs or foreign currency rates may require price adjustments without notice. For exact prices inquire at the time of your order.*

Products received may differ slightly because of changes from the time of printing, or may have been discontinued without notice. We reserve the right to substitute out-of-stock items with same or better-quality items. Please advise if substitutions are not acceptable.

### Multiple Pricing

When multiple pricing for an item is shown we list the price for each item based on the amount you buy.

Stock #	Size	Price ea./	1	/3	/12
SA999	1 x 1 Sq.	\$	.70	.60	.54

Price each if you buy 3 or 12 pieces

### Our Guarantee

We guarantee all items to be free from defects in material and workmanship. If you are not satisfied with an item return it to us in original condition within 30 days. Various manufacturers warranties may apply.

### Returns & Repairs

We will serve you quickly and efficiently in the repair of any item we sell, based on manufacturer's warranty. Please send a copy of your invoice with warranty returns. We reserve the right to charge a restocking fee for catalog items returned after 30 days. Special orders and hazardous materials are not returnable.

### Return Procedures

#### Please help us serve you better

1. Provide the reason for the return.
2. Include a copy of the invoice or the invoice number.
3. Place the item in its original packaging, and pack into a sturdy outer carton.
4. Ship the item back, insuring for its value in case of shipping damage or loss.

### Outer or Concealed Damage

If merchandise arrives in a damaged box, sign the receipt and write on the receipt "received in damaged condition". If the outer carton is intact but the merchandise is damaged, do not remove it from its box. In either case, call the carrier and request an inspection on your premises. They will deny any liability for damaged merchandise, unless the above procedures are followed.

### Back Orders

In the event an item is temporarily out of stock, the item will be placed on back order and shipped as soon as possible. Please advise if you prefer no back orders. For convenience and savings for those who order regularly, we make every attempt to combine the back ordered item with new orders.

### Professional Use Only

These tools and supplies are designed for the professional jeweler. Please be sure that you understand their proper use and all safety precautions before ordering. Material Safety Data Sheets (MSDS) are available on request.



Our comprehensive line of tools and supplies will make your job easier. Call, fax or go online to order today!



### Printed Catalogs

We will be happy to send you any of our catalogs. Phone 800-776-6858, between 8:00 - 5:00 Monday - Friday Central time, or log on to [www.julesborel.com](http://www.julesborel.com) or fax to 800-776-6862 anytime day or night!

Stock #	Catalog	Description
CAT-F	Findings	Comprehensive supply of findings, stones and metals
CAT-T	Jewelers' Tools	Tools, supplies and equipment for jewelry repair and manufacture
CAT-J	Resale Jewelry	Finished jewelry including chains and charms, gifts, timepieces and gift wrap
CAT-H	Horological Products	Watch batteries, crowns, crystals, movements, gaskets, assortments and tools
CAT-Mallard	Mallard Watches	Brochure and price list for our quality watch line sold exclusively to jewelers
CAT-M	Watch Movement	Descriptions of over 650 watch movements in stock
CAT-B	Watch Battery Guide	Comprehensive battery selection for watches and many other uses

### Online Catalogs

Whether you want to place an order or just look up that hard-to-find part, you can access our catalogs online at [www.julesborel.com](http://www.julesborel.com). Make it a habit to check back regularly for specials, and sign up for our eNewsletter for notification of the latest new product announcements, special pricing and industry insights from your peers.

*Privacy Policy: We won't rent, share, loan, trade, sell, barter or otherwise provide your email address to any other entity. It is used only for communication between Jules Borel & Co. and you.*





## Shofu® Abrasives

Use these high-quality abrasives to polish gold, silver and platinum. Brownies will smooth to a satin finish, Greenies will polish to a luster and Super Greenies will super-polish. Mounted polishers are on  $\frac{3}{32}$ " stainless steel mandrels. Made in Japan.



Super Greenies have a yellow band on the shaft



### Shofu Knife Wheel

The mounted KN7 shape is a  $\frac{1}{2}$ " diameter wheel with tapered edge.

Stock #	Style	Price ea./1	/12
AB0271	Brownie KN7	\$ 2.05	\$ 1.85
AB0274	Greenie KN7	2.05	1.85
AB0277	Super Greenie	2.20	2.00

### Shofu Bullet

The mounted PC2 bullet is a  $\frac{3}{16}$ " diameter by  $\frac{7}{16}$ " long cylinder with a tapered point.

Stock #	Style	Price ea./1	/12
AB0272	Brownie PC2	\$ 2.20	\$ 2.00
AB0275	Greenie PC2	2.20	2.00
AB0278	Super Greenie	2.20	2.00

### Shofu Flat Wheel

The mounted WH6 wheel is  $\frac{1}{2}$ " diameter x 2 mm thick with a squared edge.

Stock #	Style	Price ea./1	/12
AB0273	Brownie WH6	\$ 2.05	\$ 1.85
AB0276	Greenie WH6	2.20	2.00
AB0279	Super Greenie	2.20	2.00



### Shofu Unmounted Wheels

Unmounted,  $\frac{7}{8}$ " diameter x 3 mm thick wheel with a squared edge. Use mandrel MD43.128.

Stock #	Style	Price ea./1	/12
AB0453	Brownie	\$ 1.30	\$ 1.10
AB0454	Greenie	1.30	1.10
AB0454A	Super Greenie	1.30	1.10



### Shofu Floppy Disc

Unique, very thin flexible disc is  $\frac{7}{8}$ " diameter and mounted on a  $\frac{3}{32}$ " mandrel.

Stock #	Style	Price ea./1	/12
AB0458	Brownie	\$ 2.20	\$ 2.00
AB0459	Greenie	2.20	2.00



### Shofu Polishing Kit

Complete kit contains: Brownie - 2 knife edge wheels, 2 bullet and 2 wheels; Greenies - 1 knife, 1 bullet and 1 wheel; Super Greenie - 1 knife, 1 bullet and 1 wheel. Total of 12 pieces, all mounted on  $\frac{3}{32}$ " mandrels.

Stock #	Description	Price
AB0303	Shofu Complete set	\$ 26.95



### Unmounted Wheel Mandrels

Multipurpose  $\frac{3}{32}$ " diameter mandrels for unmounted wheels.

Stock #	Price ea./3	/12
MD43.128	\$ .80	\$ .60

### Pricing

Prices were up-to-date at the time this book was published, and may change without notice. Please call or fax for current price quotes.

## GRS BenchMate™

This amazing work-holding tool speeds up soldering, stabilizes stone setting and simplifies repairs. BenchMate has doubled production for jewelers who rely on traditional bench skills.

The BenchMate reduces fatigue and unsteadiness, allowing you to work more effectively. Be a better jeweler instantly by using BenchMate to hold and position your work.

## BenchMate® Package Plus



Includes a BenchMate, shellac pad, two third-hands, bench pin kit, solder pad assembly, fixed mounting plate, and hardware.

GRS04-571

\$ 284.00

## BenchMate® Accessories

ID	Stock #	Item description	Price
a.	GRS04-106	Shellac Pad	\$ 3.40
b.	GRS04-592	Insulated Solder Clamp	34.90
c.	GRS04-558	10 Plastic Jaws for BenchMate	5.80
d.	GRS04-552	Narrow Soldering Clamp	7.60
e.	GRS04-553	Wide Soldering Clamp	7.60
f.	GRS04-556	Bench Pin Kit (Mounting plate not incl.)	19.90
g.	BP161	Replacement Bench Pin 5/4" x 2/4"	2.90
h.	GRS04-559	Mounting Adapter-Thin Curved Benches	22.00
i.	GRS04-557	Fixed Mounting Plate	13.98
j.	GRS04-666	Adj. Height Bracket, Fixed Mounting Plate	39.00
k.	GRS04-546	Third Hand Attachment	29.80
*	GRS04-097	Extra Jaw for 3rd Hand	2.97
*	GRS04-097TUNG	3rd Hand Tungsten Jaws for Platinum	5.90
m.	GRS04-570	6"x 6" Double 3rd Hand Soldering Station	89.95
n.	GRS04-680	Saw Plate-Right Hand	29.00
*	GRS04-684	Saw Plate-Left Hand	29.00
o.	GRS04-569	Soldering Pad Assembly - 4" Square	24.90
p.	GRS04-660	Pitch Cup	19.25
q.	GRS04-578	Engraving Vise Shelf	29.80
*	GRS04-513	Replacement Thumb Screw for Bench Pin	1.25

\* Not Shown



Not only does the BenchMate improve safety and accuracy, but a variety of attachments expands its functionality and versatility.



### Universal Work Holder

Hold small and large items during repair by moving the four movable pins. A set of four replacement pins is available.

Stock #	Description	Price
HO590A	Holder	\$ 18.95
HO591/1	Set of four pins	3.40



### Diamond Setter's Helper

Make channel and prong setting faster and easier by fitting one of the two standard collars onto a 3/32" shank bur. Ensure that each cut will be the same distance from the top of the edge on channels and prongs. Set of two with allen wrench.

Stock #	Description	Price
DI160.00	Setter's helper	\$ 19.95



### Final Touch

Tighten prong settings on earrings with just one tap. Urethane base holds earrings while tool applies even pressure to four or six prongs. Includes base and 5 tools: 3.4, 5.2, 6.6, 8.6 and 10 mm.

Stock #	Description	Price
DI163.00	Final Touch	\$ 55.00

*We will always do our best to help you find the tools and supplies that meet YOUR needs!*



When multiple pricing for an item is shown we list the price for each item based on the amount you buy.

Stock #	Size	Price/1	/12	/100
SA999	1 x 1 Sq.	\$ .60	\$ .54	\$ .48

Price each if you buy 12 or 100 pieces

### Pricing

Prices were up-to-date at the time this book was published, and may change without notice. Please call or fax for current price quotes.



## Fine Quality Miniature Brushes

Find the perfect brush for any polishing or finishing job. Select from soft bristles for fine polishing; stiff bristles for cleaning; brass wire for gold, copper or brass; steel wire for white metals; straight wire for stronger cleaning, deburring and surface finishing; crimped wire for a softer or matte finish.



## Mounted Cup Wire Brushes

Cup wire brushes with a  $\frac{3}{32}$ " mandrel diameter.

Stock #	Wire Type	Metal	End Dia.	Price ea./1	/12	/36
BU16.960	Straight	Brass	$\frac{1}{2}$ "	\$ 2.34	\$ 1.84	\$ 1.67
BU16.962	Crimped	Brass	$\frac{9}{16}$ "	2.30	1.79	1.62
BU16.965	Lt. Crimp	Steel	$\frac{1}{2}$ "	2.48	1.98	1.79



## Unmounted Wire Brushes

Single section wire brushes. Wire size diameter: straight-.0035"; light crimped-.003"; crimped .005". Use flex shaft mandrel MD43.128 for  $\frac{3}{32}$ " shafts or MD43.158 for  $\frac{1}{8}$ " shafts. Brush diameter is  $\frac{3}{4}$ ".

Stock #	Wire Type	Metal	Hole	Price ea./1	/12	/36
BU16.880	Straight	Brass	$\frac{3}{32}$ "	\$ 1.78	\$ 1.28	\$ 1.16
BU16.881	Crimped	Brass	$\frac{3}{32}$ "	1.28	.78	.71
BU16.886	Lt. Crimp	Steel	$\frac{3}{32}$ "	1.43	.93	.84
BU16.887	Crimped	Steel	$\frac{3}{32}$ "	1.45	.95	.86



## Mounted End Wire Brushes

End wire brush has bristles that are  $\frac{1}{4}$ " long and an end diameter of  $\frac{3}{16}$ ". Mandrel diameter is  $\frac{3}{32}$ ".

Stock #	Wire Type	Metal	Price ea./3	/12	/36
BU16.926	Straight	Brass	\$.80	\$.60	\$.54
BU16.927	Crimped	Brass	.78	.58	.52
BU16.940	Lt. Crimp	Steel	.95	.75	.69



## Mounted Brass Brushes

Available as single section or heavy duty double section brushes. Wire size diameter is .0035" for straight, .005" for crimped. Diameter on all brushes is  $\frac{3}{4}$ ".

Stock #	Wire Type	# Rows	Mandrel	Price ea./1	/12	/36
BU16.805	Straight	Single	$\frac{3}{32}$ "	\$ 2.02	\$ 1.52	\$ 1.38
BU16.806	Crimped	Single	$\frac{3}{32}$ "	1.62	1.12	1.01
BU16.807	Crimped	Double	$\frac{3}{32}$ "	2.19	1.69	1.54
BU16.810	Crimped	Single	$\frac{1}{8}$ "	2.03	1.53	1.39
BU16.811	Crimped	Double	$\frac{1}{8}$ "	2.46	1.96	1.78



## Mounted Steel Brushes

Available as single section or heavy duty double section brushes. Wire size diameters: .003" for light crimped and .005" for crimped. Diameter on all brushes is  $\frac{3}{4}$ ".

Stock #	Wire Type	# Rows	Mandrel	Price ea./1	/12	/36
BU16.0687	Straight	Single	$\frac{3}{32}$ "	\$ 2.93	\$ 2.43	\$ 2.17
BU16.840	Lt. Crimp	Single	$\frac{3}{32}$ "	1.78	1.28	1.16
BU16.841	Crimped	Single	$\frac{3}{32}$ "	1.82	1.32	1.20
BU16.842	Crimped	Double	$\frac{3}{32}$ "	2.55	2.05	1.86
BU16.844	Lt. Crimp	Single	$\frac{1}{8}$ "	2.04	1.54	1.40
BU16.845	Crimped	Single	$\frac{1}{8}$ "	2.08	1.58	1.43
BU16.846	Crimped	Double	$\frac{1}{8}$ "	2.79	2.29	2.08



## High Speed Burs

Made of high speed steel for exceptional cutting efficiency and longer wear. Burs have 3/32" shanks and are available in a wide variety of sizes and shapes.

ISO	mm	Wheel S edge	Wheel R edge	Tree Cross cut	Cylinder	Inverted Cone	Cone reamer	Slim Reamer
017	1.7	BR756/5 \$2.25	BR757/5 \$2.25	BR758/5 \$2.25	BR759/5 \$2.25	BR760/5 \$1.75	----	----
023	2.3	BR756/8 2.25	BR757/8 2.25	BR758/8 2.25	BR759/8 2.25	BR760/8 1.75	----	----
025	2.5	----	----	----	----	----	BR761/9 \$3.90	BR762/9 \$2.50
033	3.3	BR756/13 2.90	BR757/13 3.00	BR758/13 3.15	BR759/13 3.00	BR760/13 2.50	----	BR762/13 2.90
040	4.0	BR756/16 3.00	BR757/16 3.10	----	BR759/16 3.15	----	----	----
047	4.7	BR756/19 3.25	BR757/19 3.30	BR758/19 3.25	BR759/19 3.25	BR760/19 2.95	----	BR762/19 3.25
063	6.3	BR756/26 3.65	BR757/26 3.65	BR758/26 3.65	BR759/26 3.65	BR760/26 3.40	BR761/26 3.65	----
080	8.0	BR756/30 3.85	BR757/30 3.85	BR758/30 3.85	BR759/30 3.85	BR760/30 3.65	BR761/30 3.85	----
111	11.1	BR756/34 4.50	BR757/34 5.25	----	BR759/34 5.15	----	BR761/34 5.15	----

## Super Carbide Burs - Type HP

Super carbide burs have a strong bond between the carbide steel and shaft which is unaffected by temperature. Exact concentricity and durability give it a high wear resistance even under unfavorable clearances. Burs have 3/32" shanks and a 1 3/4" length for use with friction grip handpieces found on high speed tools like micro motors and air driven handpieces.

ISO	mm	Round	Cylinder Square	Cone Square Cross Cut	Long Square Cross Cut
008	0.80	BR1201/008HP 1/\$2.20 3/\$2.00	BR1215/008HP 1/\$2.20 3/\$2.00	----	----
009	0.90	BR1201/009HP 1/2.20 3/2.00	BR1215/009HP 1/2.20 3/2.00	BR1223/009HP 1/\$ 2.20 3/\$ 2.00	BR1223L/009HP 1/\$2.20 3/\$2.00
010	1.00	BR1201/010HP 1/2.20 3/2.00	BR1215/010HP 1/2.20 3/2.00	BR1223/010HP 1/2.20 3/2.00	BR1223L/010HP 1/2.20 3/2.00
012	1.20	BR1201/012HP 1/2.20 3/2.00	BR1215/012HP 1/2.20 3/2.00	BR1223/012HP 1/2.20 3/2.00	BR1223L/012HP 1/2.20 3/2.00
014	1.40	BR1201/014HP 1/2.20 3/2.00	BR1215/014HP 1/2.20 3/2.00	BR1223/014HP 1/2.20 3/2.00	BR1223L/014HP 1/2.20 3/2.00
016	1.60	BR1201/016HP 1/2.20 3/2.00	BR1215/016HP 1/2.20 3/2.00	BR1223/016HP 1/2.20 3/2.00	BR1223L/016HP 1/2.20 3/2.00



## Bur Boxes

Handy wooden bur boxes allow you to organize or create your own assortment.

Stock #	Size	Number holes	Price
BX120.00	3" x 5"	20	\$ 7.40
BX136.00	4 7/8" x 3"	36	8.25
BX172.00	6 1/4" x 3 1/2"	72	15.55
BX100.00	5 1/2" x 5 1/2"	100	15.95

## Borel Finline 4 1/2" German Pliers

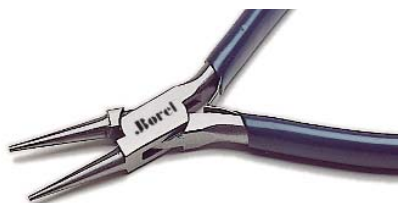
Precision 4 1/2" premium-quality box-joint pliers feature high-quality polished steel, double-leaf springs and blue vinyl-coated handles. Made in Germany.



### Borel 4 1/2" Chain Nose Pliers

Borel chain nose pliers feature smooth jaws with slightly beveled edges to avoid marring. The nose is tapered to a fine point for bending and utility work.

Stock #	Description	Price
PL100.00	Chain Nose	\$ 16.95



### Borel 4 1/2" Round Nose Pliers

Use round nose pliers to create loops and round bends with perfectly round and finely tapered tips.

Stock #	Description	Price
PL110.00	Round Nose	\$ 16.95



### Borel 4 1/2" Flat Nose Pliers

Use to grip flat objects and make right angle bends. The smooth jaws come to a fine, even taper.

Stock #	Description	Price
PL105.00	Flat Nose	\$ 16.95



### Borel 4 1/2" End & Oblique Cutters

These cutters are perfect for cutting close to objects. The jaws are at right angles to the handles. The oblique cutters feature an angled head to allow the tip to reach tight places.

Stock #	Description	Price
PL120.00	Semi-Flush End	\$ 23.95
PL125.00	Flush Oblique	29.95







### Borel 4 1/2" Side Cutters

Fine slim head allows side cutters to reach tight spaces. Semi-flush.

Stock #	Description	Price
PL115.00	Regular Jaw	\$ 22.95
PL115.50	Pointed Jaw	26.90

#### All About Pliers

Having the right plier for the job is essential for making the work easier as well as achieving successful results. Jules Borel & Co. stocks a wide array of plier shapes for utility and specialty applications for beginners to professionals.

-  Chain Nose: Features smooth jaws with slightly beveled edges to avoid marring. The nose is tapered to a fine point for bending and most utility work.
-  Flat Nose: Allows you to grip flat objects and make right angle bends. The smooth jaws come to a fine, even taper.
-  Round Nose: Make loops, round bends and jump rings with the perfectly round and tapered tips.
-  Side Cutters: Fine slim head allows cutters to reach tight spaces.

When multiple pricing for an item is shown we list the price for each item based on the amount you buy.

Stock#	Size	Price/1	/12	/100
SA999	1 x 1 Sq.	\$ .60	\$ .54	\$ .48

Price each if you buy 12 or 100 pieces

## Noble® Gold Solder One-Pennyweight Sheets

An industry standard, recognized by the yellow or white envelope. Contains cadmium.

Stock #	Color	Flow	Flow Temp °F	Price
806-601	Low Yellow	Easy	1325	\$ 3.75
805-601	Low White	Easy	1325	3.75
803-601	8 Yellow	Easy	1385	8.75
807-601	10 Yellow	Easy	1320	11.00
808-601	10 White	Easy	1410	11.00
800-601	14 Yellow	Easy	1315	14.75
800-603	14 Yellow	Hard	1475	14.75
801-601	14 White	Easy	1375	14.75
80C-601	18 Yellow	Easy	1450	19.75
80E-601	18 White	Easy	1500	19.75

## Borel Platinum Solder

Supplied in one-pennyweight sheets.

Stock #	Melt Temp °C	Flow Temp °F	Price
80B-1000	1000	1832	\$ 23.80
80B-1100	1100	2012	30.48
80B-1200	1200	2192	33.95
80B-1300	1300	2372	40.69
80B-1400	1400	2552	43.91
80B-1500	1500	2732	45.49
80B-1600	1600	2912	53.26
80B-1700	1700 seamless	3092	59.33

## Silver Solder Sheet

Supplied in five-pennyweight sheets.

Stock #	Flow	Flow Temp °F	Price
804-404	X-Easy	1300	\$ 4.50
804-405	Easy	1325	4.75
804-406	Medium	1390	5.00
804-407	Hard	1475	5.25

## Silver Solder Wire

Supplied in five-pennyweight coils.

Stock #	Flow	Flow Temp °F	Price
804-400	X-Easy	1300	\$ 5.00
804-401	Easy	1325	5.25
804-402	Medium	1390	5.50
804-403	Hard	1475	5.75

## Gold Solder Wire

One-pennyweight coils of 18 gauge wire, 1 mm diameter and 6½" long.

Stock #	Color	Flow	Flow Temp °F	Price
800-298	14 Yellow	Easy	1325	\$ 16.50
801-298	14 White	Easy	1380	16.50

Prices based on market prices at:

Platinum—\$850; Gold—\$400; Silver—\$7



You will find a comprehensive selection of solder and precious and base metals in wire, sheet and sizing stock in the Jules Borel & Co. Findings Department.

Call today for a catalog or order Cat-F on page 4. You can also check [www.julesborel.com](http://www.julesborel.com) to view the wide variety of jewelry parts and components we carry for your convenience.

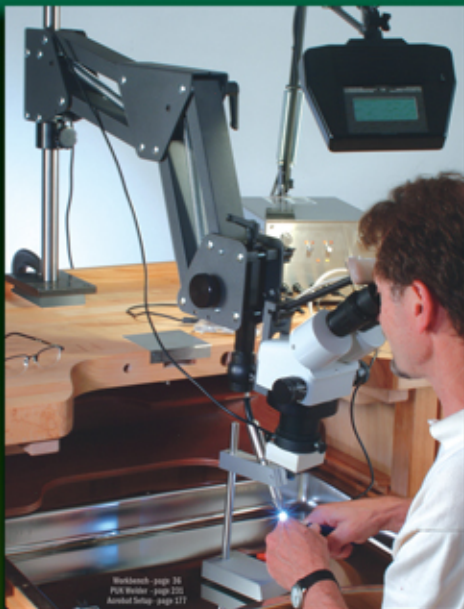
Stock #	Page	Stock #	Page	Stock #	Page	Stock #	Page	Stock #	Page
SD373.00	230	SO901.00	244	SW352.00	224	TS56.763—		TW735.22	27
SD374.00	230	SO925.00	240	SW353.00	224	56.791	170	TW735.40	262
SD399.00	229	SO930.00	240	SW602-1/2	224	TS125.00	171	TW735.42	262
SD730	230	SO935.10	241	SW603	224	TS150.00	170	TW735.44	262
SD730.03—		SO940.00	240	SW604	224	TS200.00	267	TW735.48	262
740.10	230	SO945.00	240	SW605	224	TS600	267	TW736.10	262
SD830.00	230	ST10.143	22	SW608	224	TS802—905	171	TW736.12	262
SD831.20	230	ST10.144	22	SW612-1/2	224	TS-M19106	267	TW736.16	262
SD831.50	230	ST10.148	22	SW613	224	TS-M19107	267	TW736.18	262
SD832.00	230	ST10.150	22	SW614	224	TW100	261	TW736.22	262
SD832.50	230	ST10.408	19	SW650.00	224	TW101	261	TW736.28	262
SD890	230	ST10.421	19	SW655—720	226	TW101.70	260	TW736.42	262
SD980.00—		ST10.422	19	SW750	90	TW101.72	260	TW740.00	259
993.00	229	ST10.537	14			TW101.74	260	TW741.00	259
SH53.800	208	ST10.538	14	<b>T</b>		TW101.76	260	TW744.00	259
SH53.802	208	ST10.540	14	TA60	253	TW101.77	260	TW750.00	259
SH53.806	208	ST10.541	14	TA60.500—		TW101.79	260	TW750.02	259
SH53.810	208	ST10.599	19	60.603	253	TW102	261	TW799.00	262
SH101.00	26, 207	ST11.740	18	TA60.720	251	TW103	261	TW808.00	262
SH105.00	207	ST11.741	18	TA60.722	251	TW103.70	260	TW920.01	259
SH110.00	207	ST11.760	18	TA65	253	TW103.72	260	TW920.02	259
SH153.380	207	ST11.761	18	TA75	253	TW103.74	260	TW935.00	259
SH153.385	207	ST11.776	14	TA200	253	TW103.76	260	TW940.00	259
SH170.00	26	ST11.778	14	TA300	253	TW103.77	260	TW944.00	259
SH200.00	207	ST11.780	14	TA400	253	TW103.79	260	TW945.00	259
SH200.05	207	ST11.782	14	TA508S	254	TW103C	261	TW947.00	259
SH210.00	26	ST11.900	14	TA610S	254	TW104	261	TW948.00	259
SH455.00	207	ST11.902	14	TA701—760	251	TW104.50	27, 262	TW949.00	259
SH456.00	207	ST601	19	TA790	252	TW105	261	TW954.00	125, 262
SH520.00	26	ST602	19	TA792	252	TW107A	261	TW955.00	125, 262
SH990	208	ST613	19	TA794	252	TW120.10	261	TW957.00	125, 262
SH992	208	ST713	171	TA796	252	TW120.16	261	TW1101—1205	261
SH555.00	208	ST720.00	171	TA798	252	TW120.40	261		
SH558.00	208	ST725	19	TA812S	254	TW165.10	262	<b>V</b>	
SH600.00	207	ST744	19	TA820	251	TW171.70	260	VS100.00	40
SO45.100	245	ST746	19	TA850	251	TW171.72	260	VS204.00	50
SO45.102	245	ST776	19	TA860	251	TW171.74	136, 260	VS204.20	50
SO54.0456/8	241	ST1150	18	TA7021C—		TW171.76	136, 260	VS214.10	50
SO54.402	241	ST1151	18	9083C	252	TW171.77	260	VS215.10	50
SO54.404	241	ST1152	18	TA-M620—		TW173.70	260	VS310.00	50
SO54.406	241	ST1155	18	M638	266	TW173.72	260	VS311.00	50
SO54.408	241	ST1156	18	TM47.665	255	TW173.74	260	VS550	49
SO54.415	244	ST1157	18	TM47.701	257	TW173.76	260	VS551	49
SO54.438	241	ST1160	18	TM47.701/1	257	TW400	261	VS2022	50
SO54.440	241	ST1161	18	TM47.703	257	TW401	261	VT1422	96
SO54.442	241	ST1162	18	TM47.703/1	257	TW402	261	VT1513	25
SO54.468	244	ST1165	18	TM47.772	256	TW403	261		
SO54.470	242	ST1166	18	TM47.774	256	TW403C	261	<b>W</b>	
SO54.472	242	ST1167	18	TM47.80102	258	TW404	261	WR43.560	270
SO412	244	ST1170	18	TM47.80116	258	TW405	261	WR43.561	270
SO413	244	ST1171	18	TM47.80116/G	258	TW407	261	WR43.562	270
SO414	243	ST1172	18	TM47.80117	256	TW500	261	WR43.700	270
SO415	243	ST1310	14	TM47.80117/G	256	TW501	261	WR43.715—	
SO510	245	SW49.100—		TM90	255	TW502	261	43.732	271
SO511	245	49.112	225	TM95	255	TW503	261	WR604—650	270
SO512	245	SW49.320	97, 225	TM101	255	TW503C	261	WR722	271
SO525	243	SW49.4507—		TM120	255, 258	TW504	261	WR724	271
SO530	242	49.4580	225	TM121	258	TW505	261	WR726	271
SO535	243	SW49.720	224	TM147.795	256	TW507B	261	WTB90	269
SO545	244	SW49.722	224	TM147.796	256	TW530C	261	WTB100	269
SO600	244	SW49.900—		TM150	257	TW600.00	259	WTB101	269
SO615	242	49.908	225	TM150/1	257	TW600.10	259	WTB200	269
SO616	242	SW270.60	226	TM153	257	TW605.00	259	WTB201	269
SO617	242	SW271.00	226	TM372	255	TW608.00	27	WTB400	269
SO618	242	SW271.20	226	TM373	255	TW620.00	27	WTB1360	268
SO622	109, 242	SW271.40	226	TM450-710	258	TW701.70	260	WTB1360GL	268
SO623	109, 242	SW310.01	224	TM450-720	258	TW701.74	260	WTB1455GL	268
SO820.07	243	SW310.02	224	TM450-730	258	TW703.70	260	WTB1466	268
SO820.21	243	SW310.05	224	TM450-780	258	TW703.74	260	WTB1488GL	268
SO820.28	243	SW350.08	224	TR167	44	TW735.10	27	WTB1588GL	268
SO820.41	243	SW350.09	224						

### Size Chart for Round Stones

Size in mm	Weight in carats
1.0	0.005
2.0	.03
2.5	.05
3.0	.10
3.5	.15
4.0	.25
4.5	.33
5.0	.50
5.5	.65
6.0	.75
6.5	1.00
7.0	1.25
7.5	1.50
8.0	2.00
8.5	2.25
9.0	2.50
9.5	3.00
10.0	4.00
11.0	5.00



Item	Page	Item	Page	Item	Page	Item	Page
<b>A</b>							
<b>Abrasives</b> . . . . .	5—22	Battery Tester . . . . .	267	Borel No-Rouge Cloth . . . . .	214	Carbon Tweezers . . . . .	261
Acetylene Caddy Outfit . . . . .	234	Battery Tweezers . . . . .	262	Borel Rouge Cloths . . . . .	214	Carded Bead Cord . . . . .	30, 31
Acetylene Hose . . . . .	235	Bausch & Lomb Magnifiers . . . . .	179	Borel Solders . . . . .	246, 247	Cartridge Rolls . . . . .	16
Acetylene Torch Kits . . . . .	232	Bead Blasters . . . . .	129	Borel Swiss Sawblades . . . . .	225	Carving Waxes . . . . .	97, 100
Acids, Testing . . . . .	171	Bead Box . . . . .	34	Borel-Lock Bags . . . . .	250	Case Holder . . . . .	263
Acrobat Microscope Stand . . . . .	177	Bead Cord . . . . .	29—33	BorelSonic Solution . . . . .	122	Case Opening Knife . . . . .	265
Acrylic Bur Block . . . . .	43	Bead Cord Shear . . . . .	26	Boric Acid Powder . . . . .	109, 242	Case Press . . . . .	265
Acrylic Envelope Holder . . . . .	249	Bead Crimping Pliers . . . . .	27, 205	Bow Closing Pliers . . . . .	209	Case Wrench . . . . .	265
Activator, Plating . . . . .	193	Bead Holder . . . . .	28	Bow Opening Pliers . . . . .	209	Castaldo Mold Rubber . . . . .	111
Adalox Sanding Discs . . . . .	15	Bead Reamer . . . . .	28	Boxes & Trays . . . . .	44	Castaldo Mold Sprays . . . . .	113
Adapter Chucks . . . . .	140	Bead Spacing Gauge . . . . .	25	Boxwood Mallet . . . . .	173	Caster, Centrifugal . . . . .	106
Adhesive Labels . . . . .	254	Bead Stringing Kit . . . . .	25	Boxwood Polishing Sticks . . . . .	220	<b>Casting</b> . . . . .	87—116
<b>Adhesives</b> . . . . .	23, 24	Bead Tray . . . . .	34	Bracelet Gauge . . . . .	168	Casting Crucibles . . . . .	107
Adjustable Tags . . . . .	253	Bead Wire . . . . .	32	Bracelet Holder . . . . .	238, 263	Casting Flasks . . . . .	101
Air Compressor . . . . .	129	<b>Beading</b> . . . . .	25—34	Bracelet Mandrels . . . . .	187	Casting Machine . . . . .	105
Air Filters . . . . .	213	Beading Awl . . . . .	28	Bracelet Wax Blanks . . . . .	97	Casting Metals . . . . .	110
Airflex Polishing Wheels . . . . .	9	Beading Boards . . . . .	25	Braided Bead Cord . . . . .	33	Casting Torch . . . . .	236
Alcohol Cups . . . . .	128	Beading Needles . . . . .	26	Brass Brushes . . . . .	62	Catalogs . . . . .	4
Alcohol Lamp . . . . .	87	Beading Plate . . . . .	52	Brass Hammer . . . . .	172	Catalyst, Ceramit . . . . .	191
Allen Screwdrivers . . . . .	229	Beading Pliers . . . . .	201	Brass Jaw Pliers . . . . .	204	Cavallin Rolling Mill . . . . .	222
Aluminum Oxide Blasting Media . . . . .	129	Beading Tools . . . . .	52	Brass Millimeter Gauge . . . . .	166	CDs . . . . .	55
Aluminum Oxide Stones . . . . .	22	Beading Tweezers . . . . .	27, 262	Brass Rivet Wire . . . . .	270	Cement . . . . .	24
Aluminum Ring Stick . . . . .	188	Beaker Covers . . . . .	189	Brass Scratch Brush . . . . .	60	Cement, Crystal . . . . .	266
Aluminum Solder Paste . . . . .	243	Beakers, Pyrex . . . . .	189	Brass Sheet . . . . .	271	Center Punch . . . . .	139
Anodes, Plating . . . . .	189	Beaver Ring Cutter . . . . .	45	Brass Spindles . . . . .	186	Centrifugal Caster . . . . .	106
Anti-Flux . . . . .	243	Beeswax . . . . .	34, 148	Brass Spring Wire . . . . .	271	Ceramic Lap . . . . .	147
Antelope Sawblades . . . . .	225	Behr Spectacle Loupes . . . . .	183	Brass Wire Wheel Brush . . . . .	61	Ceramic Ring Stand . . . . .	240
Antique, Background . . . . .	192	<b>Bench Accessories</b> . . . . .	38—54	Brightboy Miniature Wheels . . . . .	13	Ceramic Soldering Blocks . . . . .	239
Anti-tarnish Tissue . . . . .	254	Bench Duster . . . . .	59	Brightboy Rod . . . . .	13	Ceramit Enamel . . . . .	191
Antwerp Diamond Papers . . . . .	134	Bench Knife . . . . .	42, 265	Brilliant Buff . . . . .	67	Ceres Moissanite Tester . . . . .	130
Anvil Sets . . . . .	187	Bench Lamps . . . . .	46, 47	Bristle Brushes . . . . .	61	Chain Nose Pliers . . . . .	194—199
Anvil/Bench Pin Combo . . . . .	40, 187	Bench Lathe . . . . .	211	Broaches . . . . .	143	Chain Pliers . . . . .	197
Anvils . . . . .	41, 187	Bench Mats . . . . .	35	<b>Brushes</b> . . . . .	59—63	Chamois Buffs . . . . .	64, 71
Aplanatic Loupe . . . . .	183	Bench Organizers . . . . .	42—44	Brushes, Flexshaft Motor . . . . .	164	Chamois Polishing Cloth . . . . .	215
Appraisal Certificates . . . . .	135	Bench Pin Metal Holder . . . . .	40	Bud Burs . . . . .	78	Chamois, Mini Buff . . . . .	64
Aprons, Shop . . . . .	216	Bench Pins . . . . .	40	Buffing Machines . . . . .	210, 212, 213	Charcoal Soldering Blocks . . . . .	239
ARBE Collectors . . . . .	212	Bench Plate . . . . .	35	<b>Bufs</b> . . . . .	65—71	Chasing Hammers . . . . .	175
Arch Crown Tags . . . . .	252	Bench Top Polishing Machine . . . . .	210	Bufs, Satin Finishing . . . . .	65	Chasing Tools . . . . .	53
Armrest Watchmaker's Bench . . . . .	37	Bench Top Rolling Mills . . . . .	223	Build Up Wax . . . . .	92	Check Valves . . . . .	233
Ary Swiss Spectacle Loupes . . . . .	183	<b>Benches</b> . . . . .	35—37	Bur Blocks . . . . .	43	Checkpoint Diamond Tester . . . . .	130
Atmospheric Steamers . . . . .	119	BenchMate & Accessories . . . . .	38, 39	Bur Boxes . . . . .	82, 85	Chemkote Buffs . . . . .	68
Attack Glue Dissolver . . . . .	23	Bending Pliers . . . . .	202, 203	Bur Gauge . . . . .	85, 168	Chinese White . . . . .	148
AUL Solvent . . . . .	192	Bent Nose Pliers . . . . .	198, 200	Bur Organizer . . . . .	43, 85	Chuck Key . . . . .	164
Automatic Punch . . . . .	139	Berry Buff . . . . .	67	Burgess Vibro-Graver . . . . .	148	Chuck Mandrels . . . . .	186
Automatic Watch Winders . . . . .	268	Bezel Mandrels . . . . .	188	Burn Away Flux Brushes . . . . .	60	Claim Check Tags . . . . .	253
AV18 Tumbler . . . . .	257	Bezel Pusher . . . . .	72	<b>Burnishers</b> . . . . .	72, 73	Clamp, Mold Frame . . . . .	115
<b>B</b>							
B&S Wire Gauge Chart . . . . .	272	Bezel Roller . . . . .	72	Burnishing Compound . . . . .	256	<b>Cleaning</b> . . . . .	117—129
Back Orders . . . . .	2	Binding Wire . . . . .	270	Burnishing Media . . . . .	256	Cleaning Baskets . . . . .	120, 126, 127
Background Antique . . . . .	192	Binocular Loupe . . . . .	180	Burno . . . . .	107	Cleaning Brush . . . . .	59
Baker Stone Gauge . . . . .	133	Black Magic Pickle . . . . .	245	<b>Burs</b> . . . . .	74—86	Cleaning Gel . . . . .	124
Baldor Polishing Motors . . . . .	210	Black Rouge . . . . .	218	Busch Burs . . . . .	74	Cleaning Racks . . . . .	125, 126
Baldor Spindles . . . . .	186	Blade Remover . . . . .	114	Busch Steel Drills . . . . .	137	Clip Spring Pliers . . . . .	209
Ball Peen Hammers . . . . .	175	Blasting Media . . . . .	129	Busch Twist Drills . . . . .	86	Clipped Gold Solders . . . . .	246
Band Chucks . . . . .	186	Blitz Jewelry Cleaner . . . . .	123	Butane Fuel . . . . .	237	Cobalt Twist Drills . . . . .	139
Band Holding Block . . . . .	263	Blocks, Soldering . . . . .	239	Butane Torch . . . . .	237	Coddington Loupes . . . . .	179
Band Pin Remover . . . . .	264	Blocks, Steel . . . . .	41	Button Sprue Base . . . . .	101	Coiler Plier . . . . .	204
Band Pliers . . . . .	208	Blower, Dust . . . . .	266	Button-Fast Ring Tags . . . . .	252	Coin Envelopes . . . . .	249
Barbs, Elastic . . . . .	248	Blue Book Guide . . . . .	55	<b>C</b>			
Barrette Files . . . . .	153, 157	Blue Magic . . . . .	219	Calipers . . . . .	166	Collector, Gold . . . . .	98
Baskets, Cleaning . . . . .	126	Blue Plastic File Handle . . . . .	159	Carat Scales . . . . .	227	Collectors, Dust . . . . .	210, 212, 213
Baskets, Pickle . . . . .	245	Blue Platinum . . . . .	219	Carbide Drawplates . . . . .	221	Collet Assortment . . . . .	163
Baskets, Ultrasonics . . . . .	120	Bobbing Compound . . . . .	219	Carbide Grinding Wheels . . . . .	18	Collet Handpiece . . . . .	163
Battern's Self Pickling Flux . . . . .	241	Boley-Style Millimeter Gauge . . . . .	167	Carbide Jaw Cutters . . . . .	194	Colored Sanding Sticks . . . . .	21
Battery Cleaner . . . . .	267	Bonded Nylon Bead Cord . . . . .	33	Carbide Polishers . . . . .	73	Combination Buffs . . . . .	70
Battery Guide . . . . .	267	<b>Books</b> . . . . .	55—58	Carbide Scribe . . . . .	152	Combination Rolling Mills . . . . .	222
		Borax Flux . . . . .	109, 242	Carbon Ring Stand . . . . .	240	Compound B . . . . .	258
		Borax Granulated Flux . . . . .	109, 242	Carbon Steel Gravers . . . . .	150	Compound, Pickle . . . . .	245
		Borel Catalogs . . . . .	4	Carbon Stirring Rods . . . . .	109	Compounds, Tumbling . . . . .	258
		Borel Crystal Compound . . . . .	218			Computerized Engraving . . . . .	144



Workbench - page 36  
Pick Water - page 220  
Anvil Setup - page 111

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