



President's Letter

Why We Do So Much Free Consulting

Apparently we're famous for the research and analysis we do. Especially since we do a lot of it free. We learn an awful lot. Sometimes we get some business out of it. In any case we get a chance to help some really nice folks which is pretty good thing to do.

Why You Get The Newest And Very Best From Us?

When you're the little guy you better be quick and fast and very, very good.

There are many companies that sell what we sell, sort of. Our technique is to constantly search for the new, proven materials and bring them to market.

The wood cutting industry does maybe 5% of the R&D on cutting tools that metal cutting does. The oil, aerospace, electronics and automotive do as much or more. We go to scientific conferences, read like crazy and literally search the world to bring new, proven solutions to wood cutting.

Our "Super C" grade came out of European metal cutting. We have a new, ultra tough grade we developed for the flooring industry. Our high Comet C-4 high wear grade was developed for the mining industry and so on.

Big Companies Move Slowly

We have a couple of our big distributors that have been looking at our advanced grades for a couple years now. The salespeople want them and so does the marketing manager. They figure maybe they can offer them in a year.

Carbide Processors, Inc.

Northwest Research Institute, Inc.

Newsletter February, 2006

3847 S. Union Ave. Tacoma, WA. 98409 (800) 346-8274

sales@carbideprocessors.com www.carbideprocessors.com

Three Special Grades To Give Much More Wear With Much Less Breakage

Super C

Super C grade is tougher and harder than other C-2 grades. It has a unique combination of sub micron grain structure combined with a high % of binder makes the difference.

Grades	Hardness HRA	Strength P.S.I.
Super C sub micron	92.3	537,000
Source 1 C2	92.1	334,000
Source 2 C2	91.8	334,000
Source 3 C2	91.5	377,000
Source 4 C2	90.4	435,000

We think it is the best C-2 in the industry. Priced comparably with other C-2 grades. Call Emily and try a thousand.

Comet X (Wear)

Our Comet grade extended wear. Another sub-micron grade with a truly special post processing that gives you a much tougher and much longer wearing C4 grade.

Improvement over carbide

laminated particle board	225 %
hardwoods -	1,155 %
Countertops -	400 %
MDF Board -	500 %
Oak, Fiber Board, Plastic -	550 %
MDF, Laminate -	700 %
Particle Board and Pine -	600 %



Comet M

The picture shows a tool used to remove ceramic tile from concrete floors. At the tip is a piece of our carbide that repeatedly slams into tile, concrete, steel and whatever else might be in a floor.

Please Specify Us For Pretinning Ask for us where you buy carbide or call us directly



We are really, really good at pretinning small parts

Manganese Braze Alloy Doubles Tool Life



1. Cadmium 1 100% good braze
2. Cad free 2 60%
3. Cad free 3 0% - all tips lost
4. Manganese 4 100% good braze

Fifteen years ago everyone used a braze alloy with Cadmium for carbide. Then the government severely tightened the rules on Cadmium exposure. Everyone went to a Cadmium free alloy that wasn't very good. We found a Cadmium free braze alloy with manganese that eliminated tip-loss and breakage in a huge percentage of the tests in labs and in mills.

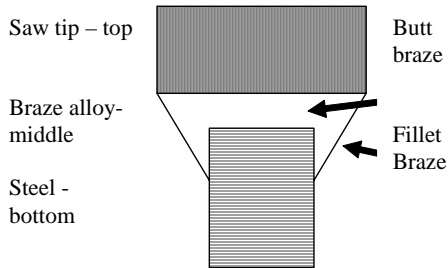
Proven to reduce loss and breakage

Recent Japanese tests on hard rock well drilling show that adding Manganese to braze alloy can double tool life. A standard braze alloy drilled 1050 feet while the same alloy with Manganese drilled 2000 feet. This sort of drilling is more pounding rock than the severing of fibers we see in wood cutting but it still demonstrates the advantages of Manganese in braze alloys for tools.

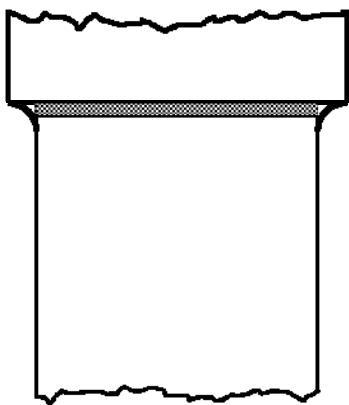
The Best Braze Joints

You can successfully braze a saw tip on with either a butt joint or a fillet joint (sometimes spelled filet.)

The strongest joint is where you use both joints in combination.



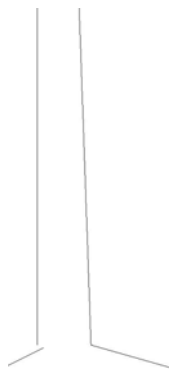
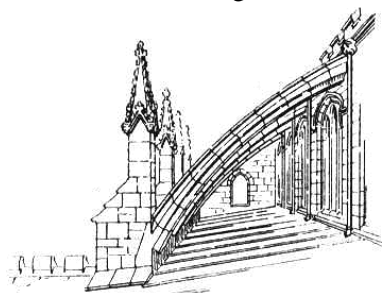
Drawing not to scale



This is what it looks like in scale. The gray area is the braze alloy.



The fillets contribute as much as 35% more strength to the braze joint. This is the same thing as seen in the bridge above or the building below.



You can see the same thing in trees. Trees typically have small this sort of root structure. There are lots of reasons for this in trees but one of the things they do is make the trees stronger in the ground especially to any sort of tipping force.

It Also Tells You How Good Your Braze Joint Is

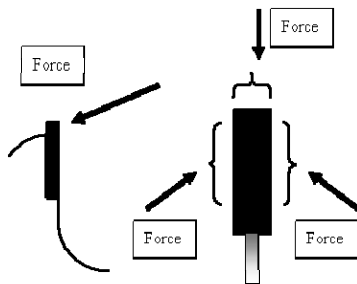
You need clean steel to get the braze alloy to flow on it. If you get an even, consistent flow all the way around the tooth you have good, clean steel.



A weak fillet joint means a weak butt joint as well

The left fillet is good because the braze alloy was drawn across the steel by capillary attraction. As the braze alloy cooled it shrunk and formed a curve. However it did not pull away from the steel. This is a very strong fillet joint.

The right fillet is not good because it is just a ball of braze alloy that got pushed out of the braze joint. It did not wet and flow across the steel. This is a very weak fillet joint. This means that you almost certainly have a weak butt joint.



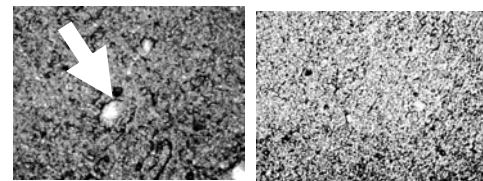
Clean Plate, Treated Carbide and the Right Braze alloy



This is a picture of the braze joint between the carbide (top) and the steel (bottom). You can see where both are dirty and the braze alloy balled up.

We have a great deal of information on cleaning steel. All our pretinned carbide is 100% guaranteed to flow and wet extremely well for the strongest braze joints.

And The Right Flux



Ordinary flux

Purified flux

Ordinary flux (left) has inert inclusion in it (arrow). These make up as much as 15% of the material. This works fine for ordinary brazing. However in saw tips and tools the flux is between the steel and the carbide. These inert particles get trapped and weaken the braze joint. That is why we developed the purified flux (right).

Silver Solder Prices Have You Hammered? Want Help?

The price of silver has doubled in the last year. This has really increased the price of high silver solder. We have done everything we can to work with it. One of the things we have working for us is that we buy thousands of ounces. This gives us a pretty good price. If you wanted to buy from us we would sell you some of ours at a very small mark up.

**Call Emily
800 346-8274**

Two Tip Failure Analyses Done In The Last Month

Analysis 1 Three Significant Problems

There appear to be three contributing causes to the failure.

1. The surface treatment on the carbide did not stick to the carbide. This is the gray film on top of braze alloy.



2. There are a great number of bubbles on the braze alloy which are probably trapped flux. It could also be trapped oil, or grease which would explain why the braze alloy did not stick to the steel.



When brazing the tip should be brought up to full temperature. Then the tip is moved away from the steel maybe a quarter of an inch to allow the flux and flux gases to escape. Then the tip is allowed to suck back into the joint. The tip should not be pushed back into the joint since you need .003" to .005" between the carbide and the steel. Join thickness does not look like a

contributing cause to the failure here.

The braze alloy did not stick to the steel in all areas. This is usually indicative of a contaminant such as oil and / or grease. We recommend cleaning the notch with a soap or caustic cleaner before brazing.



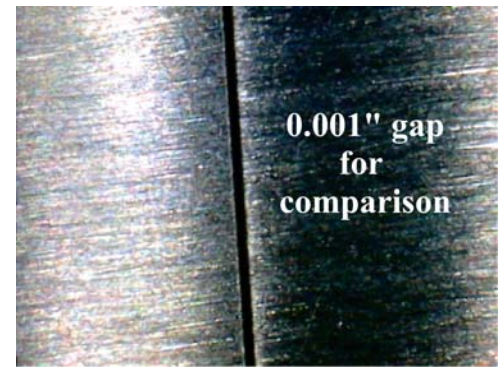
It looks like this is bare steel because of the gray color. This is at the bottom of a big bubble

Analysis 2 Overly Careful Brazers

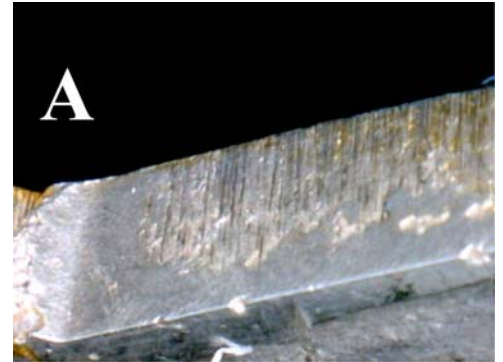
In this case the brazers were making sure they did not overheat the steel so they very slightly underheated it. In addition they were seating the tip with too much pressure and squeezing too much braze alloy out of the joint.



Here you can see the bare steel on the right side with the lines in it from the gumming wheel. You can see the braze alloy on the left side. It looks like the braze alloy layer was maybe 0.0005" thick when it should be 0.003" to 0.005"



This is a picture of the jaws of a dial caliper at the same magnification (50x) as the tips. The black line in the middle is 0.001" wide.



We solved this two ways. First we added 25% more braze alloy to the tips we pretinned. Second, we switched to our Hi Impact braze alloy. Two of the brazers had used Hi Impact in a plant where they worked previously and knew its value.

If You Want An Analysis Done

If you are a current, active customer the cost is \$100. If you are not a customer then the cost is \$300. Phone support or a quick analysis is always free for customers.

Catalog

World's Best Brazed Tools
Supplies & equipment for those that build them



Sawfiler Brand Tools & Supplies



High quality and unique tools, supplies and technology to make your job easier and your products superior

3847 S. Union Ave. Tacoma, WA. 98409
800 346-8274
President@carbideprocessors.com
www.carbideprocessors.com

Supplies, Products & Services We Offer

Carbide Grades & Shapes

Talonite® Cast Saw Tips, Blanks and Bar Stock

All Standard grades

High Performance Grades
"Super C"
Comet "M"
Comet "X"

Special Carbide Services
Brazing
Custom grinding
Custom lengths
Custom shapes

Presharp
Pre-sizing
High shine surface
Slick surfaces for easy feeding
Rough surface for easy handling
Custom boxing
Custom labels
Exact counts

Pretinning
Wire, shim and paste
22 different alloys available
Regular and cold process pretinning
Cadmium free alloys
Cadmium alloys
Hi impact pretinning with manganese
High strength high silver alloys
Trimetal shims any thickness
Patented surface treatments
Really pretty tips

Braze Alloys (Braze Alloy / Silver Solder)
Flux

Filter Units
Coolant Test Instruments
Coolant

Proscope - Digital Microscope

High Wear Metals For Knives and Scrapers
Talonite® cobalt / chrome alloy
Impervium is Impervium that has been "cold reduced", hammered to create a tighter structure.

Brazing Services
Consulting
Testing

Books we sell
1. Building Superior Brazed Tools
2. Failure Analysis In Brazed Tools
3. Managing Coolants From Machining And Grinding Operations

"Sawfiler" T shirts & Coffee Mugs

We Buy Carbide Scrap and Grinding Swarf



NEW & FREE CATALOG

Here are pages from our new catalog. Call Emily to get one you can read 800 346-8274

Carbide Grades & Shapes. All Standard grades, High Performance Grades, "Super C", Comet "M", Comet "X"

Talonite® Cast Saw Tips, Blanks and Bar Stock

Special Carbide Services

Braze treating
Custom grinding
Custom lengths
Custom shapes
Presharp
Pre-sizing
High shine surface
Slick surfaces for easy feeding
Rough surface for easy handling
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Pretinning
Wire, shim & paste
22 different alloys available

Regular and cold process pretinning
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High strength high silver alloys,
Trimetal shims any thickness, Patented surface treatments
Really pretty tips

Braze Alloys (Braze Alloy / Silver Solder)
Flux

Filter Units
Coolant Test Instruments
Coolant

And much, much more

Carbide Grades & Shapes

Our history, starting with Weyerhaeuser is saw tips. In twenty five years we have added a tremendous ability to supply custom shapes in advanced grades that are uniquely ours.

Carbide saw tips
Alternate top angles
Aluminum cutting
Band Saw Tips
Bits and shanks
Canadian style tips
Cast saw tips
Comet grade reinforced carbide
Cutoff saw tips
Drill bits
Edger tips
European style tips
Extended wear grades
Frozen lumber
Hollow Face
Hollow top
I.T.C.O. tips
Metalworking saw tips
Nail cutting grades
Pallet cutting
Right & left handed tips
Slasher Teeth L & R
Rail back
V-back

Special carbide shapes
Special grinds
Square back American STB
Rectangular Strips
Strom blanks & strips
Stamp grinding
TICN true cermets
Trim saw tips
High Precision for Automatic tipping

Uses & Industries
Agriculture applications
Drill bits
Drill Tips
Form tools & misc.
Router tips
Saw blades
Special tools
Tile scraping & snippers
Wear and cutting edges
Woodworking carbide



Filter Units We Sell

These are our standard designs. We are scientists & engineers and love to build custom units.

CP 1000 - \$599 High performance, long life, low cost. A submersible pump drops in the sump and pumps through a bag filter. This gives very good filtering and very good filter life in small shops. Designed for use with manual equipment.

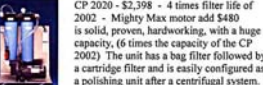
CP 2000 - \$1,198 - Single pass, fine filtering - Optional sump for laser crystals, military, etc. Works very well in high capacity saw & tool shops but will need a filter change about every three days. Best with a separate sump where ultra fine polishing (2,000 grit) is needed.

CP 2002 - \$2,038 One-month filter life in saw shops. Best model for saw & tool shops. The result of 7 years of constant development with a couple hundred saw and tool operations from one man shops to major international manufacturers.

Wall Mount unit - \$675 - Same life & effective filtering as CP 2002 - runs off coolant pump on grinder. This unit mounts on the wall and uses the coolant pump on the grinder. If your grinder has a small coolant pump you may need to upgrade to a larger pump.

CP 2002-2 \$2,454 3 way - Turn 2 valves and filter 2 sumps - Mighty Max motor add \$480 Makes it very easy to switch from one sump to the other by just switching two valves. Not for filtering two sumps at the same time.

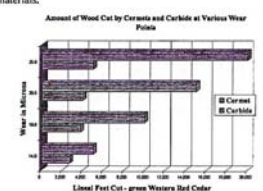
CP 2020 - \$2,398 - 4 times filter life of 2002 - Mighty Max motor add \$480 is solid, proven, hardworking, with a huge capacity. (6 times the capacity of the CP 2002). The unit has a bag filter followed by a cartridge filter and is easily configured as a polishing unit after a centrifugal system.



World's Best Sawblades And Other Custom Tools

We supply the best brazed tools in the world.

We have twenty five years working with the very best saw and tool builders as well as the finest tool technology firms in the world. In addition we have our own unique technologies and materials.



If you have a special need we will design a tool exactly for your machine, your materials and your cutting needs.

If you have an unusual application of just want the very best please contact us.

Wear Resistance	Thick Wear (mm)	Thin Wear (mm)
Cermet vs. Carbide	0.21	0.2
Time (min.)	15	0.5
	15	0.65
	20	0.8
	24	0.84
	30	0.81

A brazed carbide tipped knife that is 0.025" thick and 0.5" wide



Grades - All Standard Grades

Ordinary tungsten carbide - individual grains glued together with cobalt
Comet grades - A solid substance with reinforcing like rebar (dark lines) in concrete

High Performance Grades

"Super C" Hard as a C-3 and tougher, a lot tougher than a C-1. This is a sub-micron grade tip with special additives and incredible performance values. A Transverse Rupture Strength of 537,000 P.S.I. and a hardness of 92.3 HRA

Comet "M" - Super tough, Extra high wear C-3 and C-4 Comet Grade "M" for Macho
12% cobalt - 3 micron grain size (88.8 Avg. HRA)
Grade M is extremely tough and is best used in saw tips that require toughness and resistance to fracture (applications where impact or interrupted cuts are involved). Ideal for frozen lumber and lumber with foreign materials such as nails and staples. Excellent for impact.

Comet "X" - Extended wear -6% cobalt - submicron grain structure. (93.5 Avg. HRA) Comet X is used in applications requiring very high wear resistance. Grade X is a very hard grade, ideal for masonry materials, MDF, fiberboards, etc., where there are no foreign materials. Very high wear characteristics but not suitable for impact applications.

X grade results
Particleboard 100%+ better
Hard aggregate 20% better
Green oak 100% better
Sawmill 1,000% better
Copper tube 400% better
Fiberglass 50% better

Stamp Cutter
Nail Cutter
Pallet Grades
Cermets
Alumina

GRAIN SIZE INFORMATION:	
Ultra Micro Grain	2 to 5 Micron
Sub Micro Grain	5 to 7 Micron
Micro Grain	7 to 10 Micron
Fine Grain	1 to 1.4 Micron
Medium Fine Grain	1.5 to 2.5 Micron
Medium Grain	2.5 to 4 Micron
Coarse Grain	4 to 10 Micron

CP 3000 - \$2,158 with 3rd filter & \$2,638 with Mighty Max motor - ultra clean filtering & long filter life.
The third filter serves as a polishing filter for ultra clean coolant.

Turbo 2000 - \$4385 - in stainless steel. Holds 10 - 10" filters. The open interior causes turbulence that increases efficiency by shifting flow to the most suitable area. An excellent unit for use as a polishing unit with a centrifugal filter system

Optical shops & Lab unit - \$1798, general lens grinding & other uses where appearance is essential. Quiet, clean pump & clean, white cover

Coolant Test Instruments
All you need for monthly coolant tests

Recommended
Digital Brix Refractometer \$369.00 complete
Coolant Test Strips \$75 per tube of 100
Bacteria & Fungus Test Kit - Box of 10 - \$91.40
Graduated Cylinder \$19
Complete starter kit \$559.30 save \$21

Also available
Optical Refractometer 0 - 32% \$170

Coolant
Coolube 220 - 5 gal. - \$190.99
Rustless Coolant - is a synthetic high performance diamond wheel grinding coolant which combines high rust protection while minimizing cobalt leaching from carbide. Carbide Power Grind is highly resistant to bacteria and fungus.

Cobalt remover 4 oz. \$5.95

Brazing Services
Torch
Oven
Vacuum
Atmosphere
Induction
Brazing consulting
Contract brazing
Training

Consulting
Failure analysis
Training
Brazing consulting
Environmental consulting
Safety and Health consulting
Environmental consulting
Grinding Coolant Management
Coolant Testing
Filtering Grinding Coolant
EPA compliance

Testing of Grinding Coolant
Government certified testing
1. Particle size and count \$60
2. Turbidity \$30
3. Viscosity \$30
4. pH \$20
5. Conductivity \$34
6. Cobalt levels \$34
7. Chromium levels \$34
8. Cadmium levels \$34
Total lab test \$272.00

Books \$50 on line, \$100 printed & coil bound
Books we sell
1. Building Superior Brazed Tools
267 pages, 271 illustrations covering more than seventy topics.
2. Failure Analysis In Brazed Tools
97 pages and 165 illustrations.
3. Managing Coolants From Machining And Grinding Operations

T shirts
Coffee Mugs

We Buy Carbide Scrap and Grinding Swarf

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Braze treating
Custom lengths
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Presharp
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22 different alloys available
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As much as you want at no extra charge
Cadmium free alloys
Cadmium alloys
Hi impact pretinning with manganese
High strength high silver alloys
Trimetal shims any thickness
Patented surface treatments
Really pretty tips



If you resell carbide we provide
Custom Packaging
Custom labels
Boxes of candy with your name on them



We will box pretinned tips in your boxes of 500 each with a custom label on it. We can generate a label with words and art in black on white. We can also provide warning labels.



We will be happy to do demo boxes for you. We can provide sample boxes with your name on them and candy inside.



Precision Equipment



Wire cutter
Weigh Scale
Really pretty tips



Proscope - Digital Microscope

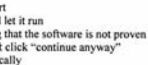
Installing the Proscope
Plug the scope into the USB port
Insert the CD, close the CD and let it run
When you get a message saying that the software is not proven to be compatible with Microsoft click "continue anyway"
Installation will finish automatically



To start the camera - Plug the camera in
Go to the start menu in the lower left hand corner of your monitor screen
Click Start
Click settings
Click control panel
Click printers and other hardware
Click scanners and cameras
Click the Scalar USB Shot
If you do not have the Proscope plugged in then nothing will show up



What you get in the small package
The scope all ready to plug into a USB port.
A 50x lens with LED lighting. A good solid, tripod and a really nice Samsonite soft case.
The software loads in minutes.



Really Easy to use - Rest the hood right on what you want to see and a picture shows up on your monitor. Here we are taking a picture of the "on" key



Talonite® is made with a mixture of Cobalt, Chromium, Tungsten, Iron, Silicon and Carbon. It has a Rockwell of C 68, tensile above 100,000 lb/in. and it is extremely acid resistant. Talonite® has excellent high heat, wear and corrosion resistance. Talonite® forms Cobalt - Chromium carbides when it is welded. This gives it strength and wear resistance. This gives Talonite superior strength and wear resistance. The cobalt forms a soft and strong matrix that holds the carbide grains in place.



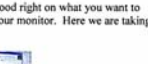
You can get about the same thin kerf with Talonite as you can with swaged steel. Figure 0.060" - 0.070" while tungsten carbide is pretty well limited to a low end of 0.100" - 0.110" in primary wood.



Talonite® advantages
Talonite has the advantages over carbide of being harder to break, possibly having less drag (lower coefficient of friction) and Talonite can be ground with less expensive wheels. Carbide requires diamond wheels and Talonite can be ground with CBN (cubic boron nitride) wheels.



Package 1: \$ 468 Basic USB computer package
Comes complete and ready to use with: Proscope, Installation Drivers and 50x lens with standard internal lighting
This unit plugs directly into a USB port on a computer.



MSDS & Safety Compliance

What follows may seem sort of extreme. In truth, you may be able to get through a safety inspection by doing less. However the very first time I was inspected I was told I had a good, clean, safe shop but my paperwork was not in order. It cost me \$280.00

Our philosophy is that it is just cheapest and easiest to follow the laws fully and completely whether we think they are silly or not.

If the State of Washington says I need to use the color green for safety and only for safety then that is what we do.



Green tape around the top drawer of my filing cabinet

We want the safety inspectors' first impression to be a good one.

When you come in our office you will see a set of book shelves. On those book shelves are several binders in official safety green



Sample MSDS list

By federal law you need MSDS sheets for all chemical used in your workplace.

These MSDS sheets need to be readily available to any employee. We have a set in binders in the shop. We also keep a master set in the office. In Washington State you need to have safety information in green binders. You cannot use green to indicate anything but safety.

Your supplier is required by federal law to send these to you. If you use retail products, such as soap, in your shop you can typically get one through a fax back system from the manufacturer or online.

The first time is hard because you have to list everything. Here is a sample list of some of what we use to get you started.

- Office**
- SF-76T Black toner
- SF-76ND black developer c
- SF-76M Organic Photoconductor
- All solvent based correction fluids
 - Viking white, Viking ink
- Aerothane ® TT solvent Viking thinner
- EP-E cartridge black HP Laser jet toner cartridge
- Glue stick
- Liquid Paper correction fluid
- Wite Out copy correction fluid
- HP cartridges
- Production Area**
- Brazing flux flux
- (One for each kind and each supplier)
- Tungsten Carbide saw tips & other
- (One for each supplier)
- Tipping alloy
- Cast cobalt alloy
- Hardfacing alloy Talonite
- Braze alloy
- (One for each kind and each supplier)
- Shop Maintenance, Etc.**
- 4 GM epoxy glue
- Alcohol cleaning
- Aerokroil solvent
- Denasol cleaning alcohol
- Dryphite graphite
- Metal Repair Stik
- Mobil Vactra Oil No. 2 lubricant
- Presto Prep P-2 blackener
- Rapid metal
- TAP Magic Original Cutting Fluid
- TEKSOL EP Aerosol cleaning solvent
- WD-40 lubricant
- General Plant, Janitorial & Misc.**
- Ammonia solution
- CB / OEM antifreeze coolant
- Armor all Protectant
- Buffered eyelert eye wash
- Clout Automatic dishwasher detergent
- Clout Laundry detergent
- Compressor oil
- Comet Cleanser
- M5LK synthetic compressor Oil
- Dial Bar soap

- Firebricks & Insulation
- Formula 409 cleaner
- Goop Hand cleaner
- Grease - Lubricating oils
- Grease - Zeniplex 2
- Joy dish soap
- Liquid gold
- Lysol disinfectant
- Mop & Glo floor wax
- Octagon dishwashing liquid
- Pine sol
- Propane
- Soft Scrub cleaner
- Soft Scrub with bleach cleaner
- Spic and Span cleaner
- Sterns' Miracle Gro plant fertilizer
- Tuff Stuff foam cleaner
- Vinegar distilled white
- WD-40
- Ortho Weed B Gon weed killer
- Windex glass cleaner
- Windshield Washer fluid
- Woolite rug cleaner
- Zep orange cleaner

#1 rule for dealing with inspectors

A few years ago I went to the University of Washington and earned a certificate in Environmental Management. We had a really good attorney teaching the law classes. He had two rules.

Rule #1 The inspector does not make the laws so there is no point fighting with him.

Rule #2 The inspector is there to enforce the laws. If he thinks you are doing something illegal and you can show him you are legal then that is all he needs.

Years ago I received a call from a customer who had bought one of our filter systems. He loved the system but wanted to know what to do with all the drums of old coolant. He had been told they were hazardous waste.

We sent him some information including the following from Federal law. *40 CFR Section 261.2 (e) (1) Materials are not solid wastes when they can be shown to be recycled*

He labeled the drums as "Coolant held for recycling. He let the water evaporate out naturally and sold the sludge.

Instead of being fined heavily for having hazardous waste he actually made a few dollars.



Not only a pretty face but also great customer service

Here is Emily, who is always perky and always happy to help customers. Emily's job is to help people find carbide, silver solder, filter systems and everything else we sell. If we can't supply you but we know who can we will refer you. No matter what you want we will work really hard to find it.

Thank You & Free Taffy

A customer called and told us that it was about time to send out salt water taffy again so we are doing it. Call if you don't get one or if you need more.

Scandal in Shipping

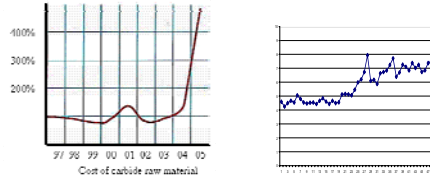
When we send out candy it sometimes gets eaten in the shop and never makes it to the front office. Hard to believe, I know. If you are in the front office and want a box sent to you directly, give us a call. 800 346-8274

**Please Specify Us For Pretinning
Ask for us where you buy carbide or call us directly**



We are yeally, really good at pretinning small parts

Tungsten Carbide And Silver Prices Rise Dramatically



The charts above show the prices of tungsten carbide (left) and silver for the last few years. You can see dramatic increases in both.

What You Can Do About It Carbide – We offer several grades that just last a lot longer; 2x, 3x up to 11 times as long. You get a lot more for your money.

Silver Solder – We buy a lot of it and we are willing to resell at a very small mark up.

New Product



New Product

A precision stump for filing cross cut saws. It makes your work easier and more accurate. You can see how happy this user is with his new stump.

For some real new products see P. 4

Filter Systems Available Through Top Quality Distributors such as Peerless Saw Co., Smith Sawmill Supply, Burton/Fitt Saw & Supply, Equipment Ltd., Jack Sigrist, Moon's and wherever you buy saw supplies

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