

Fac 2

Vanis

VG Pharis -

Titanium Hydride 100g; 1000ps @ 1gr

Cerium Vp M 100g; 100ps @ 1gr

Microban 510 500ml 500ps @ 1ml?

or Copper (Sb labels) 250g 500ps @ 5g

1/10

100ps @ 1g

100ps @ 1ml

500ps @ 1ml

50ps @ 5g

150ps
74

Alpha Braid Coats

Coats Metal 1500g 210ps @ 70g

20ps @ 70g

21

MIG Brazing - (Noob in use)

Al/Ester Bronze 4500g; 530ps @ 85g

50ps @ 85g

4500

Metal

Clean

85 Ethanol 1 lb 100ps @ 10ml

50 Acet 1 lb 1000ps

4250 Trichlor 2 lb 200ps

250 MS56 0.5 lb 50ps

NET 70 0.5 500ps

500ps

Dens

Be - 1.85g/cm³

Pu - 19.8g/cm³

500ps @ 10ml

Leak Test

Rate of 50 Ops/Yr.

Peak Area

27m x 400m

- 27g

Fac 3

Open gran NORMA of

Fac 2

1g
2g
3g

500 → 50 kg / 17

25 kg

→ 17 kg

Be thicker no more than we radius
with

Aluminum density = 2.7 g/cm^3
 liquid = 22.375 g/cm^3

Set
 2.57

$\therefore 85 \text{ g} \rightarrow 35.4 \text{ cm}^3$

2.67

Capillary gap 50
 - 150

$1 \text{ mm} = 1000 \mu\text{m}$

$100 \mu\text{m} = 0.1 \text{ mm} = 1 \text{ cm} / 10,000$

$35.4 \times 10,000$

$345,000$

$= 587 \times 587 \text{ cm}$

Al Sil for TLG - $1 - 4 \text{ mm} \times 1 \text{ m}$
 $87\% \text{ Al } 12\% \text{ Si} + \text{Density } 2.65 \text{ g/cm}^3$

$3.14 \times \frac{12.56 \text{ mm}^2}{1000}$

$1 \text{ m} = 100 \text{ cm}$

It density = 1 - $\frac{100}{100}$

for 1 cm^3 of (wire) - $\frac{1}{100} \text{ cm}$



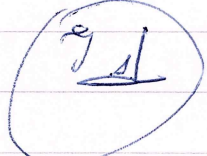
α

0.0004 ln of α use = 0.1256 cm^3

Brazing

Soke brazing - $\approx 1/1000$ - $7/1000$ inch thick.

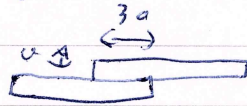
Capillary - gap $50 - 150 \mu\text{m}$ ($\approx \frac{2}{1000} - \frac{6}{1000}$ inch)

Brazing beads  - 0.5 mm $\frac{20}{1000}$ inch

- Check before \rightarrow avoid

Arc Van Furnace Brazing -
copper-silver eutectic or alloy braze

In welding the base material melts, \approx higher temperature
for braze with strength of weld - overlap - 3 times thicker
of piece has joined




Fault 1

Vacuum Furnace \rightarrow up to 1600°C .

Fault 2 Van Furnace \rightarrow max temp 810°C ;

titanium hydride

Furnace Braze \rightarrow pre powder filler

Now  - butt-layer joint

712 - beryllium oxide ceramic components

CAN - Avoid for CTS - edging of a μ component &
eliminate beryllium

Fat 1

@ 10 workdays / year -

Per Week	1/10	1/10	1/10
<u>Fat 1</u>	100	10	10
Be @ 25 kg	- 25 kg	25 kg	2.5 kg
HFE 700 clean	- 100 kg	100 kg	10 kg
Lead / lead alloy	- 500 g	500 g	47.5 g
Non-ferrous (int. tube)	- 25 kg	25 kg	2.5 kg
Ferrous metals	- 50 kg	50 kg	-
Titanium Hydrol VF Bags	- 50 kg	50 kg	@ 5g/op → 10 operations, waste
(Total 100 op at 5g)			

Bondy - Blue 2 kg @
Be (40 ops at 5g) 200g 4 ops @ 50g.
- Silica 25 kg 2.5 kg

imp/cut
subst
wally hr
200g
5g
40

Marl Clay 40L (4000 ops @ 10ml) 4L → 400 ops @ 10ml.

40,000

Etch → water at 10% 55ml ∴ amount per op = 50ml

NDA-A 5L = 100 ops	10 ops
Sophia Acid 5L = 100 ops	10 ops
Persulfon Acid 1L = 20 ops	2 ops
Phosphon Acid 5L = 100 ops	10 ops
Hydrofluoric 1L = 20 ops	2 ops
Acetic 1L = 20 ops	2 ops
Acquis Alkalis Sol 100	100 ops
18 kg	360 ops
	1/10 36 ops

100
500
15
3

PCD Test -
piston band dye 5 kg; 0.15 kg per op → 33 ops → 30 ops.
Silica powder 5 kg;

Bay 2 Handgins - Funk 3

Trichloroethylene

→ 20-50 ml per operator

→ up to 100 lbs

→ i.e. up to 2,000 - 5,000 cleaning operations

50x100

Bay 1 ethanol - 80 lbs/year (Rats Pu)

Bay 2 (C) " (Be) - 40 kg / yr (Rats Pu)

50 lb

→ 100 ops/yr → 100 ops
C2H5OH 100g

- 100 ml per op
- 100 ops
- 80 ops!

20

Bay 3

- 5 lb/yr

(up to 50 ops/yr)

MIC

85g → 0.25 kg

50

Bay 4 Trichloroethylene

Per 200 lb & 500 lb / 100 ops

1/10

MIC Brass

Al/Sil Br 0.25g, 150 ops @ 85g

5 ops

TMC
Tupia 15 kg

Rad Class

Trichloroethylene 100 l 2,000 - 5,000 ops/yr
ops & 20

200-500 Ops

31
60
1060
30
5258

560g/30m

0.31g/s →

1.6
5 | 8.
30