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# NASA TECH BRIEF



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## Silver-Palladium Braze Alloy Recovered from Masking Materials

### The problem:

To devise an economical method for recovering powdered silver-palladium braze alloy from an acrylic spray binder and rubber masking adhesive used in spray brazing.

### The solution:

A recovery process involving agitation and dissolution of the masking materials in organic solvents and recovery of the suspended precious metal particles on a filter.

### How it's done:

The metal-powder-coated masking materials are stripped from the brazed structure and immersed in a methylene chloride bath, which is then subjected to ultrasonic vibration. The resultant contaminated metal-powder sludge is removed from the bath and placed in a high-speed stirrer containing a toluene-methyl ethyl ketone mixture to dissolve the organic contaminants from the sludge. The suspended metal particles are separated from the resultant solution by

filtration under vacuum, washed on the filter with fresh portions of the solvent mixture, and finally dried.

### Note:

Inquiries concerning this invention may be directed to:

Technology Utilization Officer  
Marshall Space Flight Center  
Huntsville, Alabama 35812  
Reference: B66-10631

### Patent status:

Inquiries about obtaining rights for the commercial use of this invention may be made to NASA, Code GP, Washington, D.C., 20546.

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