

WORKSHOP PROJECT PROPOSAL

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PROJECT IDEA:

**MAKING FACE
MASK BY
SAND ,METAL
OR
DIY CASTING**



OBJECTIVE:



- ❑ The objective of my project is to get familiarity with the process and techniques of sand casting and the tools associated with it. The project is to make a face mask by pouring molten aluminum into a mold that we make using sand.**or**
- ❑ I WILL BE USING A MATERIAL CALLED ALGINATE .IT GOING TO GIVE SAME STRENGTH TO WORK PIECE AS MOLTEN ALUMINUM WHEN DRIED

PRECAUTIONS:

- **Wear closed shoes to protect the feet in case they touch any hot surface.**
- **Wear gloves, protective goggles.**
- **Wear a mask to avoid inhaling dangerous fumes.**
- **Make sure the lab is properly ventilated.**
- **Avoid going too close to the hot furnace/pit.**

APPARATUS AND REQUIREMENTS

- ☐ flask (cope, drag)
- ☐ molasses sand powder(aliginate)
- ☐ Rammer
- ☐ Sand powder
- ☐ Plastic of paris
- ☐ Shinner
- ☐ patterns to be casted: Drag (own made)
- ☐ Plaster bandages

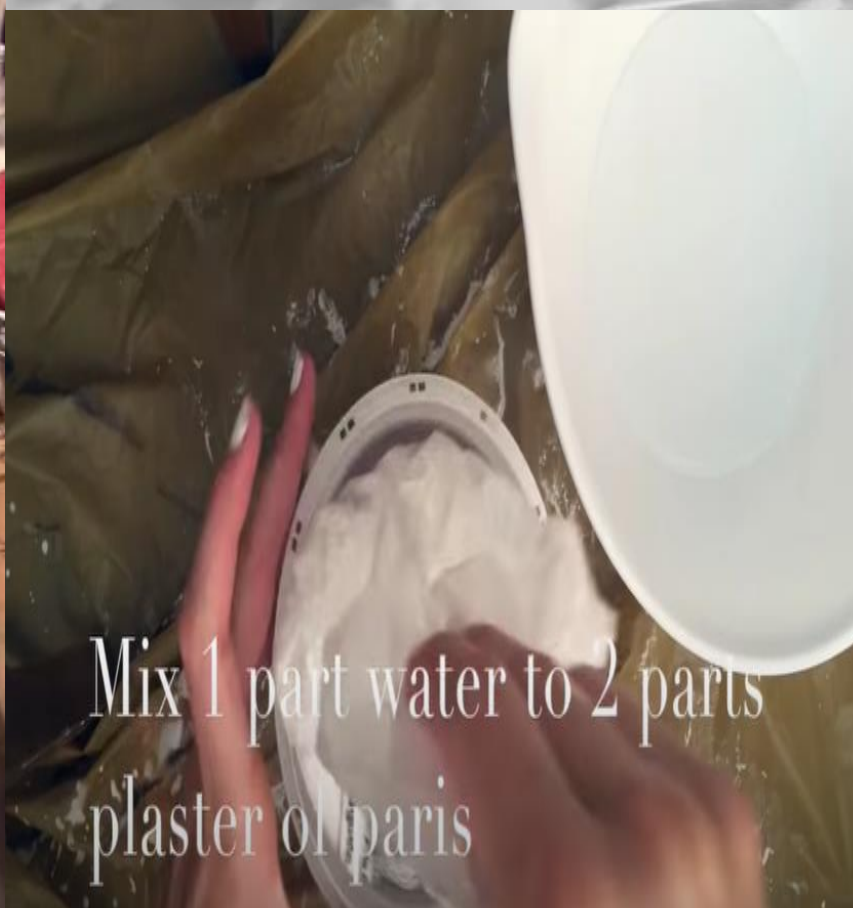


PROCEDURE (IN GENERAL)

THERE ARE SIX MAJOR STEPS TO FOLLOW:

- **Place a pattern(face mask or sculpture) in sand to create a mold.**
- **Incorporate the pattern and sand in a gating system.**
- **Remove the pattern.**
- **Fill the mold cavity with molten metal .**
- **Allow the metal to cool .**
- **Break away the sand mold and remove the casting.**

PROCEDURE: followed similar to six steps
STEP ONE: MAKING DRAG



Mix 1 part water to 2 parts
plaster of paris



Use a liquid latex (aliginate) mix one by one parts with water to neutralize it. Apply on your face layer by layer slowly with continuous air blow by a hair dryer in front. So that it dries up throughout the process. around on my hairline stick plastic wrap to cover back head and hairs.

- stick plastic wrap to cover back head and hairs.
- Once it is done. Use plaster bandages to hold aliginate we use plastic bandages for giving more support and more tough texture once it dries apply layer by layer covering every single part, eyes nose lips ,fore head. Once it dries ,gently and slowly pull the drag out of your face.

Now

Put a towel in a bowl to steady the face cast. Put your mask as bottom part drag. Just In foundry work, the terms cope and drag refer respectively to the top and bottom parts of a two-part casting flask, used in sand casting. The flask is a wood or metal frame, which contains the molding sand, providing support to the sand as the metal is poured into the mold.

- Apply some of Vaseline or olive oil to the inside of the mask .Use a plaster of Paris and some Luke-warm water in bowl.**
- Mix one part water to 2 parts of plaster of Paris. Pour layer of it in your face drag. Then leave it for 24 hours to dry or use some of wood glue and expend it with some water. Pour it as filling in drag(face mask of plaster)**
Shake it to remove any air pockets jiggle it around and shook it well.



Gently using a rammer to make sure there is no air bubble left behind for the final result. Leave it to dry .it might take 24 hours. Now once the filling has dried remove the drag(upper layer neatly remaining no remains of plaster bandages)

if so we use sand paper of fine grit about 150 grit. Rub it gently over the surface off to get any sort of blemishes on the skin of face

Also use a screw driver or a sharp tool to add detailing to face features. Use a screw driver and a sand paper to rub and remove any of air bubble trapped

Apply (mog poch) a kind of shiner or instead use nail polish shiner.



PICTURES:





FINAL PICTURE

WITH SHINNER



WITHOUT SHINNER





The end