

Material Safety Information

Material: Aluminium - Bronze Alloy

Manufacturer: Solsons Exim, 16 Panchratna Industrial Estate, Changodar-382210, Ahmedabad. INDIA.

Composition: AL: 9-12% Ni: 2-5% Mn: 1.5% (Max) Fe: 1-3% Cu: Balance

Risk: On delivery, the material is in solid form and harmless. If the material is worked up in such a way as to produce airborne particles (through dry grinding, polishing, electrical discharge machining, melting, welding, etc.) there is no possibility of risk of inhalation. The material is completely inactive to any chemical reaction due to weather or water. Ordinary handling, punching, moulding and most type of cutting are harmless. Heat treatment up to 830 degree Celsius is safe.

First Aid: There are no acute risks.

Exposure to metal dust or fog: In practice, such exposure is only possible in connection with processing methods such as dry grinding, polishing, electrical discharge machining, melting and welding and the amounts released are likely to be small as not to produce any direct symptoms. In all cases, however, person should be moved out in fresh air and a doctor should be consulted.

Cuts and scratches: In the event of accident, such as cutting oneself on the material, normal precautions should be taken - remove any particle in the wound, clean & apply a bandage.

Eyes: Wear safety glasses to protect against metal particles. There is no particular risk of eye injury.

On swallowing: Observe standard industrial hygiene practices. Swallowing involves no particular risk of health damage.

Fire Precautions: The material is non-inflammable.

Leakage: This is not possible when the material is in solid form.

Handling, storage: No special regulations.

Physical properties: Solid Bronze – coloured material; density 8.4gf/m³ ; Melting point 1080 degrees Celsius.

Stability, reactivity: The material is stable, non-corrosive, non-soluble and under normal condition, it does not disintegrate.

Toxic effects: In solid form the material is harmless and it has no toxic effects.

Ecology: In any form, Aluminium – bronze alloys are not detrimental to the environment.

Waste treatment: Non-hazardous material for handling of scrap.

Transportation: Transportation of the material in solid form is harmless.

Operations: Any misuse must be avoided, e.g. extending the handle length of wrenches with piping or using a crow bar.