

while eliminating the need for a solderable surface. This hybrid approach provides excellent surface wetting and low interfacial resistance, as well as eliminating the risk of pump-out of the liquid alloy.

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Gallium and the gallium alloys, like indium, have the ability to wet to many non-metallic surfaces such as glass and quartz. Gently rubbing the gallium alloy into the surface may help induce wetting.

Note: These alloys form a thin dull looking oxide skin that is easily dispersed with mild agitation. The oxide-free surfaces are bright and lustrous.

## Applications

Typical applications for these materials include thermostats, switches, barometers, heat transfer systems, and thermal cooling and heating designs. Uniquely, they can be used to conduct heat and/or electricity between non-metallic and metallic surfaces.

## Packaging

Alloys are packaged in polyethylene bottles and shipped in accordance with applicable federal regulations.

## Storage/Shelf Life

Unopened bottles have a guaranteed one year shelf life. It is recommended that, as the alloy is removed from the bottle, the volume be replaced with dry argon. This will minimize the possibility of oxidation at the surface of the alloy. If the alloy has been stored below its melting point and has solidified, it should be re-melted and thoroughly shaken or mixed before use. Care should be



References	

Density gm/cm3

1. K. Wade and A.J. Banister, "The Chemistry of ALUMINUM, GALLIUM, INDIUM, and THALLIUM", Pergamon Texts in Inorganic Chemistry, Vol. 12, 1975.

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