

5. Mg TARGET

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Metallic magnesium was evaporated using tantalum evaporation source heater on thin copper foil backing. The copper backing was obtained by evaporation of copper on clean glass slides coated with RBS and then floated on appropriate frames. Attempts were made to use Ag, Ag on Au and Sb as backing materials without success. Bi backing was not as good as the copper one.

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Magnesium oxide (MgO) was evaporated by electron bombardment using a tantalum crucible of a special shape. The oxide is mixed with some drops of water which provides the adhesion to the tantalum surface where the reduction takes place. The Bi foil was produced by evaporation on glass substrates with RBS coating and mounted on the target frame. These frames with Bi were attached to a cold finger during the evaporation.

6. Bi TARGET

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Bi targets were obtained using a tantalum evaporation source heater.

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Cleaned and polished glass substrates with either RBS, CsI or NaCl as release agent were used successfully.