

THE MANUFACTURE OF ALUMINIUM BRONZE (\*)

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Employing practices and equipment generally available for copper alloy castings like gun metals and phosphor bronze, attempts have been made by Indian foundries to manufacture Aluminium Bronze Castings without understanding its basic principles. This paper has tried to deal with factors that should be considered for economic production of Aluminium Bronze Castings.

Briefly explaining the metallurgy of the alloy, the parameters governing foundry practice of Aluminium Bronze have been discussed. Factors like the effect of short freezing range, structure, effect of casting and mould variables on mechanical properties, control of composition and gas absorption, etc. are explained.

Concluding, suggestions have been made to adopt such techniques that would give a sound casting.

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(\*) Paper for presentation at the Symposium on "Recent Developments in Non-Ferrous Metals' Technology" - 4th to 7th December, 1968, Jamshedpur.

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