

ABSTRACT

Aluminium alloy have used many industry of manufaktur otomotif because its owning light weight and resilience of good corrosion resistance. One of the aluminium alloy type used occasionally in the world of otomotif is JIS HD2G or of AA 380 as product of casting. Because more and more yielded product him use type material of this, hence result of its production of aluminium will yield alumunium scrap which more and more also. Pursuant to the mentioned, hence efficiency action can be apply] that is by process recycle of scrap the aluminium to be made by elementary materials or material of aluminium which is often referred by the name of Ingot.

This Research utilize to analyse process recycle aluminium scrap become ingot of HD2G in order to improving the quality of product. Analysis with direct forge trial of alumunium scrap with scale produce so that problems of which can identified will loo like possible with problems of production which later will happened.

Result of research indicate that biggest problems result the loss of material effect of forge process that is [at] phase forge of scrap to be made Ingot of DU (recycle ingot) where losing of elementary materials or material in this case tired aluminium scrap 31.94 %. [Is] for that conducted action repair to forge process, and pursuant to trial with condition of after [done/conducted] repair yield the existence of the make-up of that is missing material become 18.55 %, better 13.39 % from previous condition.

Key Words : Scrap, Ingot, Melting Furnace, Alumunium.