Pengaruh Penambahan Scrap, Modifier (Al-Sr) dan Grain Refiner terhadap Nilai Fluiditas pada Ingot Aluminium-AC2B

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Abstrak

In manufacturing of component of automotive with use aluminum material, fluidity factor of aluminum liquid play a part important at moulding process with gravity and or die casting. Low fluidity liquid aluminum represent one of the factor causing to be formed affect / reject for example gas of porosity, shrinkage, misrun / shut cold and spot hard This research aim to know aluminum liquid _fluidity with parameter charging material l00% ingot (0% scrap) and 50% ingot (50% scrap), addition of AlTiB refiner grain (0,05 - o.6%) and addition ofAlSr modifier (0,001% - 0, 02%) by using temperature variation (630°C) 700?C1 720°C, 73 C, and 750°C) from 2 local ingot of aluminum ACZB. From result of this research indicate that the quality of ingot play a part important to fluidity value. ingot with little inclusion have high fluidity value. At addition of AlTtB grain refiner 0, 05 - 0,8 %, from both ingot assess reached by optimum fluidity of addition moment 0,6%. While addition of AlSr modifier of rate 0,001 - 0,02 % for reached by optimum fluidity value of addition moment 0, 01 %.