

ABSTRACT

Solution treatment has been carried out on as-received A357 alloy at two solution treatment temperatures of 530°C and 550°C for 11 hours. The microstructural study was performed by using optical microscope. Optical microstructure study of alloy revealed that the increase in solutionizing temperature has improved the distribution of α -Al dendrites and eutectic silicon (Si) particles. In addition, eutectic Si particles also were found to change to spheroidised and increasing in size with the increasing in solutionizing temperature.

Keywords: solution treatment, solutionizing temperature, eutectic Si particles.