The distinctive characteristics of the composite materials for the particular needs makes these materials to save material and energy in some of the applications like automotive bearings, automotive cylinder liners, structural parts, pistons and aerospace. In this paper, investigation on the dry characteristics of Al 6061 alloy with coconut shell ash as reinforcement, at various proportions of 1%, 3% and 5% using stir casting method is considered. Mechanical properties of the composite like micro hardness, density, porosity, tensile strength and wear characteristics at different loads, speeds and track diameters are studied.