

International Journal on Recent Researches In Science, Engineering & Technology (Division of Mechanical Engineering) A Journal Established in early 2000 as National journal and upgraded to International journal in 2013 and is in existence for the last 10 years. It is run by Retired Professors from NIT, Trichy. It is an absolutely free (No processing charges, No publishing charges etc) Journal Indexed in JIR, DIIF and SJIF.

Research Paper Available online at: www.jrrset.com ISSN (Print) : 2347-6729 ISSN (Online) : 2348-3105

Volume 5, Issue 5, May 2017

JIR IF : 2.54 DIIF IF :1.46 SJIF IF: 1.329

Review on diversified uses of cow urine for quenching purposes Ramkumar and Suguna

Abstract

The authors did extensive work on diversified uses of cow urine and has reviewed many research articles. They have identified many fields where cow urine is used as a medicine and have suggested the application of the same for metallurgical materials. Cow urine contains sodium, nitrogen, sulphur, mn, silicon etc and can be used as a quenching media for metals. The ingradients of cow urine will drastically change the microstructure of the metals. Worked on effect of Molybdenum and Cobalt Addition on Micro Structure and Mechanical Properties of Aluminimum-12.5%Sillicon Alloy. They investigated the influence of cobalt and molybdenum on the structure and mechanical properties. The additions are added as micro additives at various compositions to the percentage of iron present in the alloys. The hardness strength and impact strength were measured using Vickers hardness tester. The chemical composition analysis was conducted using chemical analyzer and microstructure examination was done using metallographic microscope.