



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

Experimental evaluation of EN8 steel in different quenching medium

R.Stella and S. Prabu

Abstract

The authors conducted experimental work on evaluation of EN8 steel in different quenching medium. Modern steel is generally identified by various grades. The EN8 grade steel was chosen by the authors for heat treatment to increase the hardness and were resistance of the steel. they applied different quenching medium to find out the best quenching medium for EN8 steel to improve the hardness and were resistance. Further their microstructures were also compared. In their experimental work they explained preparation of samples and also indicated the heating temperature of 930⁰c for 3 hours in gas carburizing furnace. The hardness was tested by Rockwell hardness tester .Through various graphs they compared the hardness with quenching media.They also indicated the various quenching media used by them. The various quenching medium were air,oil and water.