



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 4,
April 2017

JIR IF : 2.54

DIIF IF : 1.46

SJIF IF: 1.329

Experiments to evaluate the mechanical properties and microstructure of EN8 steels quenched in different quenching medium

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Abstract

The authors conducted experiments to evaluate the mechanical properties and microstructure of EN8 steels were quenched in different quenching medium. The specimens of EN8 medium carbon steels were heated to 900,930⁰c in gas carbonizing furnace and the quenched in different quenching medium. The quenching medium used by them were oil, water and air. The mechanical properties including hardness and microstructure were estimated. The hardness of the water quenching material is higher than other quenching materials.