

Forging Quality Steels – Surface Quality Requirements

Abstract:

Good formability leads to steel products being processed by various hot, warm and cold processes. Forging applications consume very large quantities of special quality bar steel produced. Good surface quality of steel bar products is one of the important properties that decide its suitability for the forging application. Hence great importance is attached to understanding the surface quality requirements for various applications, developing capability to manufacture steel to meet those requirements, detecting the defects at appropriate processing and final stages and their elimination. The following paper describes the types of surface defects, their origin during stages of long steel production, pictorial depiction of them to understand their genesis and the methods used to detect these defects. Methodology to detect and eliminate these defects at Gerdau Steel plant in Tadipatri, India is elaborated and quality philosophy is explained.