

TASK ONE

Surface hardening of steels

Surface hardening of steel is the operation carried out on the steel to increase its strength and hardness thus improving on its ability to resist wearing of parts. The process is carried out in a way that does not affect the internal soft tough part. The hardening of surface parts of steel is very vital in parts like applications of turbine, bearing or shafts, ring gear, cam and automotive components since their surfaces must be hard enough to resist the wearing processes and internal parts should tough to resist operational impacts on the steel. The treatment methods usually result into stresses at interior or the surfaces of the metals more specifically during cooling. The stress created facilitates propagation of crack while reducing the possibility of crack initiation at the casing of the metal (Wang et al 2015).

The various techniques applied in surface hardening treatment of steels include the diffusion methods of substrate treatment like nitrocarburizing, carbonitriding, carburizing, nitriding and boriding and the selective methods of hardening like laser hardening, flame hardening, electron beam hardening, induction hardening, ion implantation and selective nitriding and carburizing. The associated problems of cracking and distortion in through hardening are reduced in surface hardening since the process can be done on steels of low and medium carbon contents making it more advantageous.

Diffusion surface hardening methods

This is based on the thermochemical process that generates the required heat for diffusing the hardening elements to the various sub-surfaces and surfaces of metal parts for modifications on

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F Rizvi



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