Abstract

Chromium carbide nickel chrome, Cr3C2-NiCr coatings applied on AISI 340 alloy steel through high velocity oxy-fuel (HVOF). In this microstructural studies, steel sample were prepared to differentiate the thickness of the coating based on the hardness value between coating and substrate. The experimental procedures Cr3C2- NiCr thermal spray coating process, testing procedure and equipment involved were being determined through numbers of literature reviews and availability of equipment inside university laboratory. It is to prove that chromium carbide nickel chrome Cr3C2-25NiCr can produce better protection for AISI 304 alloy steel.

References


Index Terms

Computer Science Power Electronics

Keywords

HVOF; Cr3C2-25NiCr; Vickers Microhardness; SEM; XRD