Análisis de la contaminación ambiental producida por el plasma frío de baja presión en la limpieza de láminas metálicas [

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text (article)

Analítica

The present research addresses an analysis of the levelof contamination produced by gases generated fromcarbon monoxide (CO), carbon dioxide (CO2) andhydrocarbons (HC) in the cleaning of metallic sheetsof stainless steel AISI / SAE 304, when applying lowpressure cold oxygen plasma for the removal of oilsISO 32, ISO 68 and ISO 220, using different generatorcontrol parameters according to the lubricating oilremoved from the surface of the stainless steel metallicsheet. The experimentation was carried out in a firstphase in which a discharge was applied directly tothe surface of the sheet contaminated with a volumeof 0.1 ml of oil, and in a second phase in which thesheet with the oil was immersed in an oil degreaser toperform a pre-cleaning prior to the application of lowpressure cold plasma on the surface. For analyzingthe results in the level of gases generated by each oil,a statistical analysis is applied to determine if thereis a significant difference in the level of the gasesgenerated between the two phases.ion exist
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