



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

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Analítica

The present research addresses an analysis of the level of contamination produced by gases generated from carbon monoxide (CO), carbon dioxide (CO₂) and hydrocarbons (HC) in the cleaning of metallic sheets of stainless steel AISI / SAE 304, when applying low pressure cold oxygen plasma for the removal of oils ISO 32, ISO 68 and ISO 220, using different generator control parameters according to the lubricating oil removed from the surface of the stainless steel metallic sheet. The experimentation was carried out in a first phase in which a discharge was applied directly to the surface of the sheet contaminated with a volume of 0.1 ml of oil, and in a second phase in which the sheet with the oil was immersed in an oil degreaser to perform a pre-cleaning prior to the application of low pressure cold plasma on the surface. For analyzing the results in the level of gases generated by each oil, a statistical analysis is applied to determine if there is a significant difference in the level of the gases generated between the two phases. ion exist

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