

Supercritical Cleaning of Metals Contaminant with Oils

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Supercritical carbon dioxide based fluid is not only being considered as environmentally benign medium for various Contaminant removal, but also capable of challenging feature dimension. Despite many attractive properties, clear supercritical carbon dioxide has little solvating power for polar material. Here, some modifiers were selected to add in supercritical carbon dioxide and evaluated contribution to overall removing rate. 4 metal substrates were employed and 5 kinds of lubricant were employed as Contaminants. Removing rate were evaluated by removed weight ratio. SEM and XPS is employed to analyze surface of substrate.