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Formation of Patterned Metal Films by Metal transfer Printing

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This paper presents methods metal transfer printing of Aluminum films onto a substrates. This metal transfer printing technique relies on tailored surface chemistries to transfer metal films from the raised regions of a stamp to a substrate when these two elements are brought into intimate physical contact. We use of SAMs and solid bridge by H₂O as "release" and "contact" layers for transferring material from relief features on a stamp to a substrate. The patterned Aluminum films have investigated by atomic force microscopy (AFM), scanning electron microscopy (SEM) and optical microscopy.