

Title (en)
COMPOSITION AND PROCESS FOR SEALING ANODIZED ALUMINUM

Title (de)
ZUSAMMENSETZUNG UND VERFAHREN ZUM VERSIEGELN VON ANODISIERTETEM ALUMINIUM

Title (fr)
COMPOSITION ET PROCEDE D'ETANCHEIFICATION D'ALUMINIUM ANODISE

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Abstract (en)
[origin: WO0134872A1] U.S. Patent 5,411,607 teaches that mid-temperature-range (76-93 DEG C) sealing of anodized aluminum can be accomplished effectively without any heavy metals, using a sealing composition that contains lithium cations (preferably from lithium acetate) and particular types of anionic surfactants made by sulfonating alkyl substituted diphenyl oxides or similar structures. It has now been found that the resistance of surfaces sealed in this way to yellowing after exposure to ultraviolet light and the tolerances of the sealing process itself for the presence of siliceous impurities and sulfate ions in the sealing compositions can be considerably improved by using two kinds of these surfactants, one with alkyl substituents that contain 14 or fewer, preferably 12, carbon atoms each and one with alkyl substituents that contain 15 or more, preferably 16, carbon atoms each.

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