

Nucleation mechani Polymer gel electrolytes like cleaning, restoration and etching medium for metal surfaces

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Abstract

Polymer gels based on copolymers of methylmethacrylate and acrylics monomers, organic solvents and salts of alkaline metals were produced. Film creating techniques from block samples of gels by thermal compression and casting method were developed. It was shown that polymer composites like films can be used for cleaning and restoration of copper and silver surfaces. Two surface cleaning techniques: first, the polymer film contact with an object surface; second, electrolytic cleaning with use of gel like an electrolyte were tested. It was found, that the first technique is more suitable for copper – contained objects; the second is for silver – contained objects. Advantages of polymer gels technique are locating abilities and control of process.