

スクリーン印刷用電鍍Ni-Co合金メッシュの耐刷性

荘司 郁夫*, 村田 陽三*, 山本 亮一**, 佐々木 信夫***, 外館 公生***

Printing Durability of Electroformed Ni-Co Alloy Mesh for Screen Printing

Ikuo SHOHJI*, Yozo MURATA*, Ryoichi YAMAMOTO**, Nobuo SASAKI*** and Kousei TODATE***

* 群馬大学大学院工学研究科機械システム工学専攻 (〒376-8515 群馬県桐生市天神町1-5-1)

** 群馬県立群馬産業技術センター (〒379-2147 群馬県前橋市亀里町884-1)

*** 株式会社健正堂 (〒355-0812 埼玉県比企郡滑川町大字都25-34)

*Department of Mechanical System Engineering, Graduate School of Engineering, Gunma University (1-5-1 Tenjin-cho, Kiryu-shi, Gunma 376-8515)

**Gunma Industrial Technology Center (884-1 Kamesato-cho, Maebashi-shi, Gunma 379-2147)

***KENSEIDO Co., Ltd. (25-34 Miyako, Namekawa-machi, Hiki-gun, Saitama 355-0812)

Abstract

Screen printing is the method most commonly used to fabricate various electronic components. Generally, the stencil for screen printing is formed with a woven mesh of thin stainless steel wires. However, electronic components are becoming increasingly miniaturized, and it is difficult to use such a stencil for finer applications. In this study, electroformed Ni-Co alloy meshes for screen printing were developed for these finer applications. The tensile properties of the mesh materials and printing durability of the meshes were investigated and compared with those of a conventional woven stainless steel mesh.

Key Words: *Ni-Co Alloy, Electroformed Mesh, Screen Printing, Printing Durability, Tensile Properties*