

Introduction Nickel-chromium dental casting alloys are used in dentistry in part due to their strength, color, and porcelain veneering characteristics. These alloys rely on the development of a protective oxide layer for corrosion resistance. Alloys with 16-27% Cr, a minimum of 6% Mo exhibited homogeneous distributions of Cr, Mo, and O on their surfaces, as determined by Auger electron spectroscopy, and resistance to accelerated corrosion in cell culture environments. Alloys with reduced Cr and Mo level and/or Be additions exhibited non-homogeneous distributions of Cr, Mo, and O on their surfaces and were susceptible to accelerated corrosion processes. However, little is known of the chemistry of these alloys' surfaces and how they influence corrosion. Further, corrosion of the alloys may be different in solutions more closely simulating saliva than in cell culture solutions. Since concerns exist over the release of potentially biologically active metal ions, the aim of this study was to determine the chemical composition of the surfaces of two different Ni-Cr alloys and their corrosion behavior in an artificial saliva solution.

Materials & Methods Two commercially available Ni-Cr alloys, Neptune (63Ni-21Cr-8.4Mo) and Vera Bond (77Ni-12Cr-4.8Mo-1.7Be), representing high and low Cr and Mo alloys with and without Be, were evaluated. Samples of each alloy were cast into 10mm X 6mm cylinders and 20mm X 4mm discs. The samples were wet ground with SiC paper, and then polished to simulate clinical conditions. Triplicate cyclic polarization tests were performed in artificial saliva (1.5g/L KCl, 9.0g/L NaCl, 0.5g/L KSCN, 0.5g/L $\text{NaH}_2\text{PO}_4 \cdot \text{H}_2\text{O}$, 0.9g/L lactic acid; pH=4.2) at ambient conditions. Surface chemistry was determined by X-ray photon spectroscopy (XPS) using a Physical Instruments Model 1600 surface analysis instrument.

Results & Discussion XPS analysis indicated the presence of Ni, Cr, Mo, O and Nb on the surface of the Neptune alloy and in complex oxide states. Similarly, Ni, Cr, Mo, and Be oxides were detected on the surface of the Vera Bond alloy. Comparison of the corrosion curves indicated that the

passivation range of Neptune was greater than Vera Bond's (Figure). The lack of hysteresis in the curves for Neptune indicate resistance to pitting/crevice corrosion, while the significant hysteresis in the Vera Bond curves indicate susceptibility to pitting/crevice corrosion. Indeed, pitting of the Vera Bond samples was easily observed by visual inspection after corrosion testing. Neptune exhibited more noble open circuit potentials ($E_{oc} = -135 \pm 19.5$ mV vs SCE) than Vera Bond ($E_{oc} = -163 \pm 5.6$ mV vs SCE), lower corrosion rates ($i_c = 0.014 \pm 0.013$ $\mu\text{A}/\text{cm}^2$ for Neptune; $i_c = 6.2 \pm 2.4$ $\mu\text{A}/\text{cm}^2$ for Vera Bond), and higher breakdown potentials ($E_b = 520 \pm 5.0$ mV vs SCE for Neptune; $E_b = -58.3 \pm 7.6$ mV vs SCE for Vera Bond). Differences between the alloys' corrosion breakdown potentials and rates were significant at $p < 0.05$.

The presence of Be oxides on the surface, and the low Cr and Mo content of the Vera Bond alloy was associated with high corrosion rates and susceptibility to accelerated corrosion processes. The complex oxides present on the surface, and the high Cr and Mo content of the Neptune alloy was associated with low corrosion rates and resistance to pitting/crevice corrosion. These results support previous studies indicating the reduced corrosion resistance of Be-containing Ni-Cr alloys, and continues to raise concerns over their release of potentially toxic metal ions. (Project is supported by a grant from Office of Research, MSU).



FIGURE: Cyclic Polarization Curves for the Ni-Cr Alloys in an Artificial Saliva Solution

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