

The Effect of Cassava Starch on Compressive Strength and Tear Strength of Alginate Impression Material

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Abstract : Statement of problem. Alginate impression material is an imported material and a dentist always used this material to make impression of teeth and oral cavity tissues. Purpose. The aim of this study was to compare about compressive strength and tear strength of alginate impression material and alginate impression material combined with cassava. Material and methods. Property measured included compressive strength and tear strength. Results. The compressive strength and tear strength of the impression materials tested of a comparable ANSI/ADA standard no.18. The compressive strength and tear strength alginate impression material combined with cassava have lower than the compressive strength and tear strength alginate impression material. The alginate impression material combined with cassava has more water and silica content more decrease than alginate impression material. Conclusions. We concluded that compressive strength and tear strength of alginate impression material combined with cassava has lower than alginate impression material without cassava starch.

Keywords : compressive strength, tear strength, Cassava starch, alginate

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