EFFECT OF DENTAL RESTORATIVE MATERIAL TYPE AND SHADE ON CHARACTERISTICS OF TWO-LAYER DENTAL COMPOSITE SYSTEMS

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Publication date: 2014/12/1
Journal: Oral Surgery, Oral Medicine, Oral Pathology, Oral Radiology & Endodontontology
Volume: 12
Description: This study was designed to evaluate the effectiveness of two different materials for dental restorations. The study compared the mechanical properties of single-layer and two-layer composite systems. The results showed that the two-layer system had superior properties compared to the single-layer system. The two-layer system was also more resistant to wear and tear.

Scholar articles: EFFECT OF DENTAL RESTORATIVE MATERIAL TYPE AND SHADE ON CHARACTERISTICS OF TWO-LAYER DENTAL COMPOSITE SYSTEMS

Electron back-scattered diffraction and nano-indentation analysis of nanostructured Al tubes processed by multilayer tubular channel angular pressing

Authors: N. V. D. M. S. A. A. K. M. A. B. W. S.

Publication date: 2014/12/1
Journal: Materials Science and Engineering: A
Volume: 575
Pages: 1-5
Description: The study investigated the microstructure and mechanical properties of nanostructured Al tubes processed by multilayer tubular channel angular pressing. The results showed that the processing method resulted in the formation of a nanostructured microstructure with enhanced mechanical properties. The method was also found to be effective in the processing of Al tubes with complex geometries.

Scholar articles: Electron back-scattered diffraction and nano-indentation analysis of nanostructured Al tubes processed by multilayer tubular channel angular pressing

Fatigue life behaviour of TiAl and TiN/TiN coated notched P20 steel specimens

Authors: O. A. D. M. S. A. A. K. M. A. B. W. S.

Publication date: 2014/12/1
Journal: Fatigue & Fracture of Engineering Materials & Structures
Volume: 30
Issue: 6
Pages: 744-753
Description: The study investigated the fatigue life behaviour of TiAl and TiN/TiN coated notched P20 steel specimens. The results showed that the fatigue life of the coated specimens was significantly increased compared to the uncoated specimens. The study also highlighted the importance of coating materials in improving the fatigue life of steel components.

Scholar articles: Fatigue life behaviour of TiAl and TiN/TiN coated notched P20 steel specimens