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Investigations on Mechanical Properties Of Glass Ionomer Cements – A critical Study.

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Abstract : Glass ionomer cements are aqueous cements, which can adhere to complicate structural shapes without any pretreatments, providing excellent long lasting properties. The mechanical properties are analyzed at continuous intervals of time and the properties appear to increase with time. Significant increase in mechanical properties of these cements were reported in literature. These cements find extensive applications in medical dentistry. An attempt is made in the present work, to review the state of art ,on the latest trends in productions of these types of cements, the drawbacks in fabricating the same and methods to address the limitations. The review study includes the design considerations of mechanical properties of these cements. The effect of mixing nanoparticles on strength of these cements is also reviewed. The major contribution of the present work is, to critically review and present the findings of the research carried out till date in this area. The issues and challenges are identified. Techniques used to address the same are listed. The present work forms an excellent basis for future work in this field.