

**Abstract:**

Five plaster of Paris casting bandages including Nairobi Enterprises, Salvagyps, Helm, Plasrun-gyps and Veronese, available on the Kenyan market were evaluated based on breaking strength. Helm plaster of Paris had a significantly higher mean maximum load compared to all the other products ( $p < 0.05$ ). Plasrun-gyps supported the highest mean maximum load per unit thickness. Based on this study, Helm and Plasrun-gyps are recommended as more suitable for cast application on the basis of their superior breaking strength.