Effect of Change in Water Content of Soft Mudstone on Bond Strength of Rock Bolts

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In this study, the authors of this paper devised a testing method for evaluating the bond strength between rock and an anchoring material for holding a rock bolt at a laboratory using boring cores. Furthermore, the authors examined the effect of the change in water content of Neogene mudstone on the bond strength by conducting this test after changing the water content of rock samples. As the results of the examination, we make it clear that the bond strength of the rock sample decreases when the water content of the rock sample is decreased and subsequently increased.