

Ground Anchors with High Corrosion Resistance

Myoban Onsen (Hot-spring district)

In the Myoban district of Beppu City in Oita Prefecture, there is a hydrothermal landslide zone. Due to highly acidic soil (pH of 1 to 3) and hot temperature (80°C in places), steel materials and cement grouting degraded significantly. Hence, conventional anchors did not offer a solution to prevent landslides completely. NM Ground Anchors employing CFCC tendons were used because of their stability for a long period under these harsh environmental conditions. Instead of cement grouting, resin grouting was used in the underground anchoring.

Client	Beppu Civil Engineering
Location	Oita prefecture
Dimension	Anchor length 13.58m - 18.58m (140 anchors)
Material	CFCC1 x 7 ϕ 12.5, Total Length Approx. 11,000m (5-multi)
Application	Ground anchors
Completed	March 2003



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