

Preventive Grinding Method for Rail Squats due to White Etching Layer on Bainitic Rail

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With respect to a bainitic rail which has been developed as an anti-squats one, it has been found out that some rail squats are generated due to white etching layer (WEL). Grinding the rail surface is effective for the prevention of the occurrence of not only rail squats caused by rolling contact fatigue (RCF) but also those caused by WEL. Because the cost of the bainitic rail is higher than that of the normal grade rail, grinding the bainitic rail by the same method as that for the normal grade rail decreases the effect of the introduction of the bainitic rail. Therefore, we have to consider a new grinding method of the bainitic rail for preventing rail squats caused by WEL.