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The investigation on generating a new sleeve grade using in initial stand of Rebar rolling Danieli mills for improving fracture toughness of coupling

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Sleeves using in initial stands of rebar rolling in danieli mills are cast iron or ferritic cast iron generally. Application of this material meet the demands of mills especially wear resistant and reduction of fire cracks. But in some cases mills face problems in coupling fracture in sleeves. Cast irons have lower fracture toughness ratio to steels grade. Although steel grades have lower resistant to fire cracks. In this investigation we introduce a new steels grade to fulfill the needs including wear resistant, fire cracks resistant and improving and stability of performance and machinability as well. this new grade is steel base grade with special heat treatment which improve the performance about 25-30% without any coupling fracture in two Danieli mills.

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