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New generation of Admite rolls using in Finishing Stans of section mills

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The hardness of adamite roll materials for hot work rolls depends on their microstructures; the amount and hardness of coarse carbides and the hardness of matrix. The high-hardened adamite roll materials are excellent in wear resistance when the amount of coarse carbides is about 8 %, but the wear resistance deteriorates when the amount of coarse carbides exceeds a critical level.

The reason is considered to be as follows : As the volume of coarse carbides increases, the spacing between coarse carbides decreases and the area of coarse carbides in contact with hot strip surfaces also increases, to induce a partial disintegration of brittle coarse carbides. The high-hardened adamite rolls with about 8 % of coarse carbides have a hardness from Hs 65 to 70 and can be used for hot work rolls with satisfactory results.

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