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The formed metallic oxide (scale) can therefore be classified as the primary, secondary, and tertiary oxide scales [4,5] according to the three stages in Fig. 1.

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Oxide Behaviour in Hot Rolling. Michal Krzyzanowski, John H. Beynon, in Metal Forming Science and Practice, 2002. Oxide scale on the surface of metal plays a pivotal role in the thermomechanical processing and subsequent surface quality. The research reported here concerns the behaviour of perhaps the most complicated oxide scale, namely that on steels, undergoing hot rolling.

Oxide Scale - an overview | ScienceDirect Topics

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