

عنوان مقاله:

Coke Dry Quenching Technology: Review and Case Study of First CDQ Project in Iran

محل انتشار:

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خلاصه مقاله:

The purpose of this article is to review the best technologies used in the hot coke quenching process while focusing on Coke Dry Quenching (CDQ) technology which uses inert gas instead of water (thus the term dry to cool down the hot coke). After brief history and general introductions, parameters for choosing the best technology are illustrated. As we go into details, CDQ process is explained step by step starting from hot coke production in the oven (temperature around $1000 \pm 50^{\circ}\text{C}$) until delivery of cold coke (temperature below 200°C) along with specification and function of main equipment, and also achievable side-processes of CDQ such as generating electrical power from the heated gas. Finally, experiences gained by GMI from establishing the first CDQ plant in Iran are represented.

کلمات کلیدی:

Coke Dry Quenching, CDQ, Wet Quenching

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