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産業機械 133 (1961)

庄延設備特集号

(抄録 1740 ページよりつづく)

転モーメントが不変となり, また浸漬深さもある深さ以上になれば装置恒数がほぼ一定になるから, これらの影響なしに信頼しうる粘度値をもとめることは可能である。

粘度計の材料は高温におけるスラッグの侵蝕に耐え温度変化に安定で, 小さい膨脹係数を有するものでなくてはならないが, この要求を満たすものはきわめて少ない。従来使用された黒鉛, Mo と W, その他のものはいずれも一長一短で充分なものとはいえない。この点, 二珪化モリブデンはスラッグ浸蝕に耐え, 1700°C まで

は高い酸化安定度をもつから, 回転体材料としては好適である。それに, FeO と MnO に富むスラッグの場合にこれを還元するため使用できなかつた黒鉛も, 容器が大きくなればなるほどそのような還元の影響が小さくなるから, 短時間浸漬することによって工場用として使用しうる。

かくして, 浸漬深さの正確な調整, 一定の Spaltbreite の厳守の必要なく, 簡単な操作で正確な結果をうる工場用粘度計の作製は充分可能である。(岡嶋和久)