

研究室名	頃安研究室 学会発表
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演題名	消失模型鑄造法における鑄造品の外観と寸法精度に及ぼす充てん砂の影響
発表者	○ <u>頃安貞利</u>
内容	The effect of the sand materials on the appearance and dimensional accuracy of the casting in the expendable pattern casting (EPC) process was investigated experimentally. The aluminum alloy casting of the simple shape with the rib was cast by EPC process, and the dimensional change of the casting from the expendable polystyrene (EPS) pattern was measured. When the natural silica sand was filled loosely, the positive different dimension of casting from the EPS pattern was caused, and the leaching of the molten metal due to cracks in the coat wall was observed. However, when the artificial sand was filled, even with loose filling, the different dimensions of the casting were small.