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## GH169合金细晶锻造工艺研究

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## A STUDY OF THE TECHNIQUE FOR FINE GRAIN STRUCTURE FORGINGS OF ALLOY GH169

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摘要

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摘要

关键词: GH169合金 变形条件 显微组织 细晶锻造工艺

Abstract: The technique for fine grain structure forgings of alloy Gh169 is explored based on the study of the phase precipitation pattern from solid solution and its rule of controlling microstructure during forging process. It is found that when alloy GH169 is forged at a certain higher temperature and deformation with the use of hammer the fine and uniform recrystallized structure with the grain size of ASTM 10 or finer than ASTM 10 can be obtained. If an adequate intermediate heat treatment is adopted before finish forge, Widmanstatten structure of phase can be formed to guarantee the acquirement of the structure with the grain size of ASTM 10-12. At the same time, finish forging temperature may be raised 20-40°C, thus the deforming load can be decreased to a certain extent. Moreover, the results of the electron microscopic study indicate that it is appropriate to take the direct aging as the finish heat treatment when the intermediate heat treatment is used.

Keywords: alloy GH169 deformation condition microstructure fine grain structure forging technique

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