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复合轧制张力对层状复合材料临界
变形程度的影响

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摘要: 结合控制气氛轧制复合工艺, 研究了轧制张力和坯料加热温度对轧制复合临界变形程度和复合后厚比的影响规律。结果表明: 施加前、后张力可以明显减小轧制复合所需的临界变形程度, 张力的影响随着加热温度的升高而减弱; 控制张力可以在较小范围内精确控制复合后厚比。

关键词: 层状复合材料; 张力; 临界变形程度; 厚比; 控制气氛轧制

Effect of bond rolling tensile force on threshold deformation of laminated material

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Abstract: The effect of temperature and tensile force on the threshold deformation and the thickness ratio after bond was mainly studied under the condition of control atmosphere rolling process. The results show that applying front and rear tensile force will decrease the threshold deformation obviously, which will weaken with increasing temperature. While the control of tensile force will adjust the thickness ratio within a small extent.

Key words: laminated materials; tensile force; threshold deformation; thickness ratio; control atmosphere rolling

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