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## Heat treatment effect on 17-4PH stainless steel manufactured by Atomic Diffusion Additive Manufacturing (ADAM)

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### Abstract

A growing interest is observed in industry for metallic additive manufacturing. Atomic Diffusion Additive Manufacturing (ADAM) is a new extrusion-based process. The mechanical behavior of metallic materials obtained via ADAM has not been analyzed much. In the present work, a microscale experimental investigation was performed to study the behavior of 17-4PH stainless steel. The effect of heat treatment on the mechanical properties of the material was also examined.

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