

OSA Frontiers in Optics + Laser Science Conference, Washington Hilton, Washington, District of Columbia, USA, 18-21 September 2017

Preliminary investigation on selective laser melting of 17-4ph steel using high laser powers of up to 1500w

Makoana, NW

Moller, H

Louw, D

Yadroitsev, I

ABSTRACT:

High laser powers of up to 1500W were used to additively manufacture 17-4PH samples. Porosity was measured using the image analysis technique, and all samples are fairly dense with a maximum of 0.42 percent porosity.