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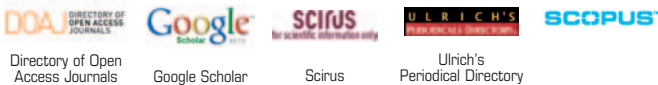
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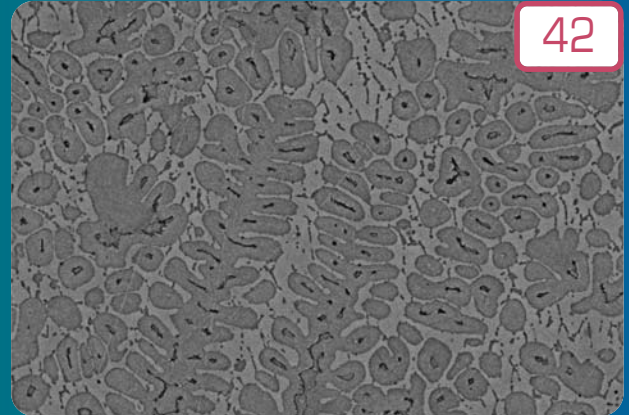
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The research paper made by Z. Brytan, L.A. Dobrzański and W. Pakiela on "Laser surface alloying of sintered stainless steels with SiC powder" on a **page 42** describes the effects of laser surface alloying with SiC powder on microstructural changes and properties of vacuum sintered austenitic X2CrNiMo17-12-2, ferritic X6Cr13 and duplex X2CrNiMo22-8-2 stainless steels. Surface modification of sintered stainless steels was carried out by laser surface alloying with SiC powder using high power diode laser (HPDL). The influence of laser alloying conditions, the laser beam power (between 0.7 and 2.1 kW) at a constant scanning rate on the width of alloyed surface layer and penetration depth were studied. The resulting microstructure in laser alloyed surface layer was examined using light and scanning electron microscopy. Phase composition was determined by the X-ray diffraction method. The microhardness results of modified surface layer were also examined. Laser surface alloying with SiC powder can be an efficient method of surface layer hardening of sintered stainless steels and produce significant improvement of surface layer properties in terms of hardness and wear resistance. The application of high power diode laser can guarantee uniform heating of treated surface, thus uniform thermal cycle across processed area and uniform penetration depth of alloyed surface layer.