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The SEM images of (a) surface and (b) cross-section of sputter-deposited tungsten (SP-W) coatings, (c) surface and (d) cross-section of vacuum plasma-sprayed tungsten (VPS-W) coatings. SP-W coatings are well organized with columnar W grains and the interface is sharp without voids, cracks. VPS-W coatings have an inhomogeneous microstructure composed of unmelted W particles, melted W and voids. Voids are observed primarily next to the unmelted particles. (Yue XU *et al.*, Plasma and Fusion Research, Vol.12, 1205009 (2017) <http://www.jspf.or.jp/>)



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