

THE STRUCTURE
OF POWDER POLYCRYSTALLINE
TUNGSTEN AFTER TREATMENT
IN PLASMA OF Ar GLOW DISCHARGE

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S u m m a r y

The interaction of the plasma of Ar normal glow discharge with powder polycrystalline tungsten is investigated by the methods of scanning electron microscopy, X-ray microanalysis, and X-ray structure analysis, and its microhardness is determined. The effective influence of low-energetic Ar ions both at the material surface and on its volume is showed. The depth of changes of the structure runs into 100–120 μm . The sizes of the new inclusions at the surface run into 10 μm and in the volume down to 5 μm .