

Название публикации:

Application of anionites for the rapid preparation of solvents for the purification of power metal optics in order to increase its service life

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Аннотация:

Pollution of mirrors considerably reduces the threshold of optical breakdown, which leads to the failure of an expensive product. Therefore, careful cleaning of power laser optics is an important factor of increasing its service life. For cleaning, halogenated solvents (HS) demanding preliminary preparation are used. The stability of anionites in freon 114B2 (Amberlite, Dowex-21K, AB-17x8) is investigated, and their capacity in relation to Cl⁻ ions is determined. The volume dependences of HCl concentration in the outcoming solution are plotted. The possibility of cleaning HS for metal optics by anionites is demonstrated, with the subsequent assessment of their stability in the solvents and the speed of absorption of hydrohalic acids for increasing their service life. © 2018 Author(s).

Ключевые слова:

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