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A BEARING ALLOY

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The familiar alloys used to cast bushings do not ensure efficient operation of sleeve bearings which are lubricated with low-concentration sulfuric or phosphoric acid at a specific pressure of \(3-4\) kg/cm\(^2\).

The described bearing alloy contains 30% bismuth and 70% lead. Sleeve bearings with bushings made of this alloy, coupled with the bushings on a shaft made of Kh18N12 steel, for example, when lubricated with 12% sulfuric acid or 36% phosphoric acid with a specific pressure of \(3-4\) kg/cm\(^2\) and increased revolutions (up to 2000 rpm), have high corrosion resistance, good running-in, and assure relatively long operational efficiency.

Object of the Invention

This bearing alloy has the following special feature: in order to assure efficient operation of sleeve bearings which are lubricated with low-concentration sulfuric or phosphoric acid at a specific pressure of \(3-4\) kg/cm\(^2\), it consists of 30% bismuth and 70% lead.