

= 1,8...2,0,  
 2,5...3,0 ( =  $D_o / D_u$  ,  $D_o -$  ,  $D_u -$  ).  
 2...2,5  
 =10...12 = 3,0...3,5  
 3...4

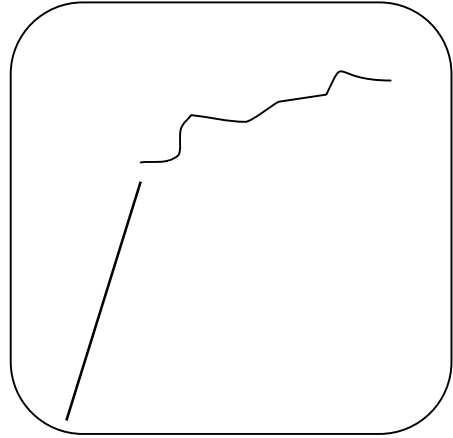
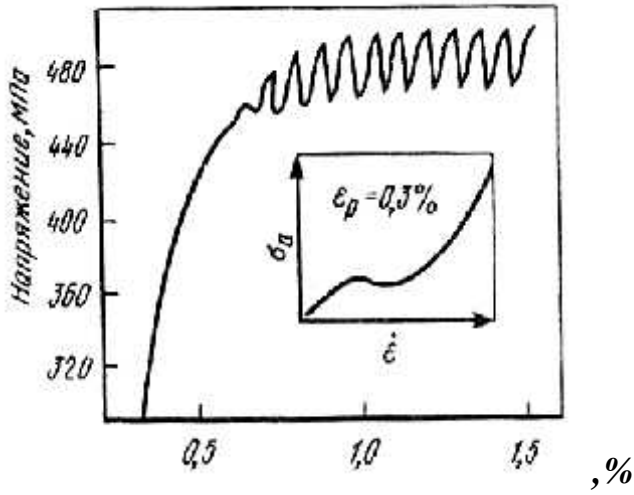
621.763:539.4.015

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[1,2].

( .1).



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: 1. I.I. Insky, S.I. Lyabuk, S.K. Kogut. Structure property relationships in dispersion-hardened Ni-SiO and Ni-Al<sub>2</sub>O<sub>3</sub> films.//Functional Materials.-2001.-8, 3.-P.535-537. 2. , 1986. – 224 .