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The invention relates to a process for metal electrochemical protection from corrosion and may be used for pipe and boiler protection.

Summary of the invention consists in that the process provides for the anodic activation of the metal surface in acid medium at the potential corresponding to the active zone of the metal with direct current pulse, then the density of the direct current pulse  $D_a$  is decreased up to the values corresponding to the potential of the passive zone, it is included the reverse current pulse, adjustable for width and it is established the ratio of densities of the direct and reverse current pulses  $D_a/D_k$  equal to  $(3,5...6,0) \cdot 10^3 \text{ A/m}^2$ , with subsequent treatment of the formed oxide film in alcoholic solution containing passivated agent at the action of the periodic current with reverse pulse, adjustable for width at the potential of the passive zone.

As passivated agent is used tannin and/or salts of the electronegative non-corrosive metals, in the quantity of 0,8...1,8 g/l and 1,5...4,0 g/l, correspondingly.

Claims: 2