

s 2020 0079

The invention relates to the field of metal protection from corrosion in water and can be used to inhibit corrosion in closed steel pipeline systems.

The process for corrosion protection of steel in water comprises the introduction into the corrosive medium of 0.5-1.5 g/L of potassium permanganate KMnO_4 and 10-30 ml/L of aqueous extract of amaranth *Amaranthus retroflexus* L., obtained by extraction of dry herb in water in a mass ratio of 4:10 at a temperature of 70-90°C for 1-3 hours, with subsequent filtration.

The technical result of the invention consists in increasing the corrosion resistance up to 35 times using an effective, environmentally friendly and inexpensive inhibitor.

Claims: 1