

The invention relates to the method of continuous production of self-sintered electrode for using in electrical melting furnace. A method of continuous production of self-sintered electrode directly in melting furnace, where electrode used, consists of using the first unsintered carbon electrode paste blocks that are delivered to hardening chamber that is situated at top end of electrode and has open upper and lower part and cross-section fitted to cross-section of being made electrode. Diameter of the first unsintered carbon electrode paste blocks is less than internal diameter of hardening chamber. The second unsintered carbon electrode paste blocks in the form of particles are delivered in space between hardening chamber and first unsintered carbon electrode paste blocks, moreover second unsintered carbon electrode paste comprises constituent that is hardened under lower temperature than first unsintered carbon electrode paste. The second unsintered carbon electrode paste is heated up and hardened by means of heater, that is situated on the hardening chamber. Around the central first unsintered carbon electrode paste blocks hardened shell is formed out of second unsintered carbon electrode paste. Central blocks of first unsintered carbon electrode paste are sintered forming hard carbon electrode together with hardened shell by means of heat that is generated in current feed area of electrode.