

Process for hydrogen chloride oxidation using oxygen

A b s t r a c t

A process for carrying out an optionally catalyst-assisted hydrogen chloride oxidation process a) by means of oxygen is described. The process comprises b) the single- or multi-stage cooling of the process gases and c) separation of unreacted hydrogen chloride and water of reaction from the process gas, d) drying of the product gases and e) separation of chlorine from the mixture, the hydrogen chloride oxidation a) being carried out in a reactor whose structural parts that come into contact with the reaction mixture are manufactured from nickel or an alloy containing nickel, wherein the proportion of nickel is at least 60 wt.%.