

Title (en)

HEAT-RESISTANT PIPE HAVING ALUMINA BARRIER LAYER

Title (de)

HITZEBESTÄNDIGES ROHR MIT ALUMINIUMSPERRSCHICHT

Title (fr)

TUYAU RÉSISTANT À LA CHALEUR COMPORTANT UNE COUCHE BARRIÈRE D'ALUMINE

Publication

**EP 3239311 A1 20171101 (EN)**

Application

**EP 15872985 A 20151221**

Priority

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Abstract (en)

The present invention provides a heat-resistant tube having an alumina barrier layer in which an alumina barrier layer is favorably provided on the tube inner surface and with which the deterioration of mechanical characteristics such as creep rupture strength and tensile ductility can be prevented. A heat-resistant tube according to the present invention is a heat-resistant tube having an alumina barrier layer to be used for thermal decomposition of hydrocarbons, the alumina barrier layer including an Al oxide and being provided on an inner surface of a tube body. In the tube body, the Al content on an inner diameter side is larger than that on an outer diameter side. It is desirable that, in the tube body, the Al content on the inner diameter side is larger than that on the outer diameter side by a factor of 2 or more. It is desirable that, in the tube body, the Al content on the inner diameter side is larger by 1.3 mass% or more than that on the outer diameter side.

IPC 8 full level

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