

Abstract

The invention relates to a slip for producing a durable, firmly adhering barrier layer on a substrate,
5 comprising a suspension of solid particles, wherein the solid particles comprise 67-95% by weight of silicon nitride and 5-33% by weight of an SiO₂-based high-temperature binder and the SiO₂-based high-temperature binder is derived from SiO₂ precursors and has been
10 pretreated by heat treatment in a temperature range of 300-1300°C.

The invention further provides shaped bodies comprising a substrate having a durable, firmly adhering barrier
15 layer and also processes for producing them. The shaped bodies of the invention are suitable for use in the field of corrosive nonferrous metal melts.