to 4, wherein the cast body further contains more than 0.01 mass% and 0.1 mass% or less of B.

6. The cast product according to any one of claims 1 to 5, wherein the alumina barrier layer has a thickness of 0.05 to 3 μm.

7. The cast product according to any one of claims 1 to 6, wherein the cast body covered with the alumina barrier layer has a surface roughness (Ra) of 0.05 to 2.5 μm.

8. The cast product according to any one of claims 1 to 7, wherein the cast body is produced by centrifugal casting.

~~9. A method for producing the cast product having an alumina barrier layer according to any one of claims 1 to 8, comprising:~~

~~a step of conducting a treatment by an acid solution containing a polyhydric alcohol liquid on a surface of a cast body made of a heat resistant alloy containing 15 mass% or more of Cr and 20 mass% or more of Ni, and 2 to 4 mass% of Al; and~~

~~a heat treatment step for forming an alumina barrier~~

~~layer containing Al_2O_3 on a surface by conducting a heat treatment on the cast body having subjected to the acid treatment.~~

~~10. The method for producing a cast product according to claim 9, wherein the acid treatment is conducted by a glyceregia liquid containing nitric acid, hydrochloric acid and glycerol, or by a glycol liquid containing glycol.~~

~~11. The method for producing a cast product according to claim 9, wherein the polyhydric alcohol liquid contained in the glyceregia liquid or the glycol liquid is more than 10 mass% and 40 mass% or less.~~

~~12. The method for producing a cast product according to any one of claims 9 to 11, wherein the cast body is a tube body having a bent part, and subjected to a bending process prior to the acid treatment.~~

9~~13~~. A method for producing the cast product having an alumina barrier layer according to any one of claims 1 to 8, obtainable by joining a first cast body and a second cast body by welding, comprising the steps of:

joining the first cast body and the second cast body by welding;

conducting a surface treatment on a joined welded part; and

conducting a heat treatment on the welded part having subjected to the surface treatment so as to form the alumina barrier layer containing Al_2O_3 on the welded part.

104. The method for producing a cast product according to claim 913, wherein the surface treatment is a polishing treatment.

115. The method for producing a cast product according to claim 913, wherein the surface treatment is an acid treatment.

126. The method for producing a cast product according to claim 913, wherein the first cast body and the second cast body are respectively tubular bodies, and joined by abutment welding.