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ABSTRACT

The peak-torque descending composition of the present invention contains a certain amount of an extreme pressure agent comprising at least neutral phosphate esters and/or neutral phosphite esters in a solvent comprising hydrocarbons and/or ethers. Further, a certain corrosion inhibitor may be contained. The part having a sliding portion of the present invention is surface-treated with the above composition. The process for producing a component or precision machine having a sliding portion comprises immersing a part having a sliding portion in the above composition to adhere or absorb the composition onto the surface of the part, then immediately, taking out the part from the composition, followed by drying, and subsequently assembling a component or precision machine using the part.

15 The press fit method of the present invention comprises in pressing a metal shaft into a metal plate, preliminarily immersing the metal plate or the metal shaft in the peak-torque descending composition to adhere or absorb the composition onto an inner surface of a hole for press fit of the metal plate or the surface of the shaft, then immediately, taking out the metal plate or the shaft from the composition, and drying.

According to the process for the production of a component or precision machine having a sliding portion of the present invention, the peak-torque descending composition of the



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invention is used as the surface treating agent, so that the gearwheel body having a slip mechanism which can be made from metallic materials with a simple structure wherein a large peak torque does not produce in an initial stage when slipped and wheel teeth of the gearwheel are not chipped even when the plastic gearwheel is used, can be efficiently produced. According to the present invention, there can be provided a press fit method wherein the occurrence of a burr phenomenon is prevented when the shaft is pressed into the metal plate.