CLAIMS

1. A method for producing molded articles based on aluminum alloys by metal injection molding, comprising the following steps:

a) producing a feedstock by mixing the metals contained in the desired alloy in the form of metal powders and/or one or more metal alloy powders with a binder;

b) producing a green body by injection molding said feedstock;

c) producing a brown body by ~~at least partially~~ removing the binder from the green body by catalytic and/or solvent and/or thermal debinding;

d) sintering the at least partially debound brown body to obtain the desired molded article;

characterized in that, in step c), the binder is completely removed, wherein thermal debinding is carried out to remove the (residual) binder, optionally after having carried out one or more previous debinding steps, said thermal debinding being carried out in an atmosphere containing at least 0.5 % by volume of oxygen, whereafter the thus obtained, completely debound brown body is sintered.

2. The method according to claim 1, characterized in that, in addition to aluminum, the aluminum alloy contains one or more metals selected from magnesium, copper, silicon, and manganese.

3. The method according to claim 1 or claim 2, characterized in that, in addition to aluminum, the aluminum alloy contains one or more metals at a percentage of 0.5 to 25 % by weight, respectively.

4. The method according to any one of the claims 1 to 3, characterized in that the metal(s) is/are used as (a) master alloy powder(s).

5. The method according to any one of the preceding claims, characterized in that a polyacetal-based binder, e.g. a polyoxymethylene (POM) binder, is used as said binder.