[What is claimed is]

1. An electrical steel sheet comprising: as a chemical composition, in a unit of mass%,

2.5% to 3.9% of Si;

0.001% to 3.0% of Al; and

0.05% to 5.0% of Mn,

the remainder being Fe and impurities, wherein

on one surface or both surfaces thereof, an insulating coating containing a curing accelerator is formed, and wherein

the curing accelerator is sealed in a dried state in the insulating coating.

2. The electrical steel sheet according to claim 1, wherein the curing accelerator contains an active component that accelerates anaerobic curing, selected from titanium, chromium, manganese, iron, cobalt, nickel, copper, zinc, silver, vanadium, molybdenum, ruthenium, and combinations thereof.

3. A bonded and stacked core manufacturing method for manufacturing a bonded and stacked core by performing press working on a strip-shaped steel sheet with a press working oil applied to one surface or both surfaces thereof, applying an adhesive to the one surface of the strip-shaped steel sheet to obtain a plurality of steel sheet components, and stacking and bonding the steel sheet components, wherein

the electrical steel sheet according to claim 1 or 2 is used as the strip-shaped steel sheet.

4. The bonded and stacked core manufacturing method according to claim 3, wherein

the steel sheet components include a first steel sheet component and a second steel sheet component, and

the method comprises:

a first step of preparing the first steel sheet component including the insulating

coating on a first surface;

a second step of preparing the second steel sheet component including the insulating coating, the press working oil applied onto the insulating coating, and the adhesive applied onto the press working oil on a second surface; and

a third step of superimposing and bonding the first steel sheet component and the second steel sheet component such that the first surface and the second surface face each other.

5. The bonded and stacked core manufacturing method according to claim 3, wherein

the steel sheet components include a third steel sheet component and a fourth steel sheet component, and

the method comprises:

a fourth step of preparing the third steel sheet component including the insulating coating and the press working oil applied onto the insulating coating on a third surface;

a fifth step of preparing the fourth steel sheet component including the insulating coating, the press working oil applied onto the insulating coating, and the adhesive applied onto the press working oil on a fourth surface; and

a sixth step of superimposing and bonding the third steel sheet component and the fourth steel sheet component such that the third surface and the fourth surface face each other.

6. The bonded and stacked core manufacturing method according to any one of claims 3 to 5, wherein the bonded and stacked core is a stator for a rotary electric machine.