CLAIMS

What is claimed is:

1. A magnetic marker laid on a road surface so as to be detectable by a magnetic sensor attached to a bottom surface side of a vehicle to achieve driving support control on a vehicle side for supporting driving of a driver, wherein the magnetic marker has a surface taken as a reference height, and a magnetism reach ratio Gh/Gs, which is a ratio of a magnetic flux density Gh at a position at a height of 250 mm with respect to a magnetic flux density Gs at a position at a height of 0 mm, is equal to or larger than 0.5%,

the magnetic flux density Gh is equal to or larger than 0.5 μT(5 mG) and the magnetic flux density Gs is equal to or smaller than 40 mT (400 G), and

the magnetic marker has a diameter equal to or larger than 80mm.

2. The magnetic marker according to claim 1, wherein

the magnetic flux density Gh is equal to or larger than 0.5 μT and equal to or smaller than 10 μT (equal to or larger than 5 mG and equal to or smaller than 100 mG).

3. The magnetic marker according to claim 1 or 2, wherein

the magnetic marker has a diameter equal to or larger than 100 mm.

4. The magnetic marker according to any one of claims 1 to 3, wherein

the magnetic flux density Gs is equal to or smaller than 2 mT.

5. The magnetic marker according to any one of claims 1 to 4, wherein

a coating or resin mold having a waterproof and wear-resistant effect is applied to the surface.

6. The magnetic marker according to any one of claims 1 to 5, wherein

the magnetic marker has a thickness within 5 mm and can be laid

on the road surface without boring a recessed accommodation hole.

7. A magnetic marker detection system in which magnetism generated from a magnetic marker laid on a road surface is detected by a magnetic sensor attached to a bottom surface of a vehicle to achieve driving support control of the vehicle, wherein

the magnetic marker is the magnetic marker according to any one of claims 1 to 6.

8. The magnetic marker detection system according to claim 7, wherein

as the magnetic sensor, at least one type among a magneto-impedance sensor, a fluxgate sensor, and a TMR sensor is used.