

USUI CO., LTD.

Amorphous alloy technology

Features

<Anti-corrosion ability>

 As formation of passivated film, amorphous alloys have high anti-corrosion ability.

<Wear resistance ability>

• With no grain boundary and high hardness, amorphous alloys have high wear resistance ability.

<Soft magnetic ability>

 As less of magnetic anisotropy, amorphous alloys have fine soft magnetic ability.

<Magnetostrictive ability>

• Using superior magnetostrictive ability, non-contact high sensitivity sensors are produced to detect strain.

<Pre><Pre>oduction technology>

• More than 300 μm thick coils are produced. (Conventional amorphous alloy thickness is 50 μm)

Application

- Torque sensor (Superior Magnetostrictive ability)
- Anti-corrosion coating films (High anti-corrosion ability)
- Chemical pump sleeve (High anti-corrosion ability and high hardness)
- Hydrogen fuel cell parts (High anti-corrosion ability and High strength)



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