

SPRAYED FILM, METHOD FOR FORMING SAME, AND SPRAYED MEMBER

ABSTRACT

5 A sprayed film including a film surface in which a value of an area ratio S/A obtained
by dividing a surface area S (μm^2) of a portion of the measurement surface (S-L surface) of
the film surface within one evaluation region by an area A (μm^2) of a portion of a reference
surface forming a plane located at an arithmetic average height of the measurement surface
(S-L surface), which is within the evaluation region is 1.75 or more and 3 or less, and a
10 surface roughness S_a of a portion of the measurement surface (S-L surface) within the
evaluation region is $0.4\ \mu\text{m}$ or more and $8\ \mu\text{m}$ or less.

Generation of particles which is caused by cracks of the sprayed film can be reduced
when dry etching using gas plasma is performed with a semiconductor manufacturing
apparatus or the like using the sprayed film as a corrosion-resistant film.

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[Fig. 1]