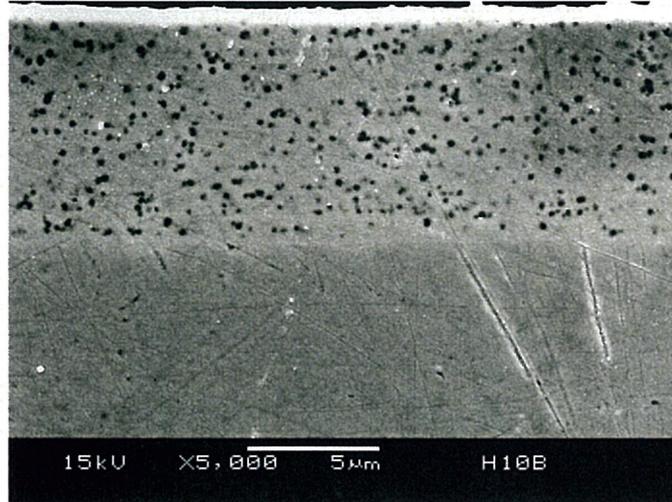


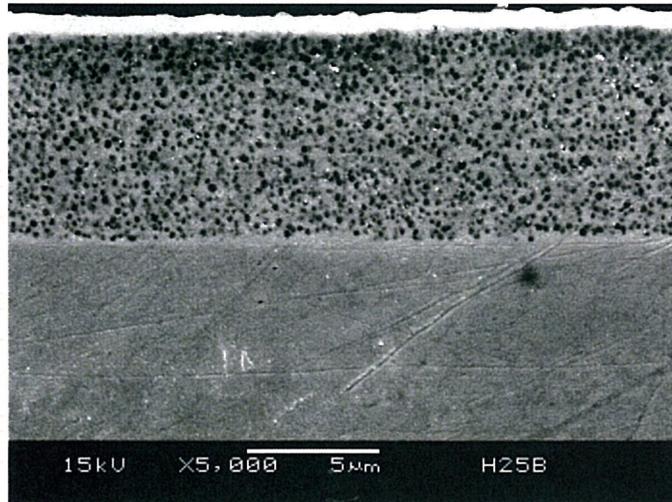
皮膜外觀 [断面写真] —SEM観察—

加速電圧: 15kV

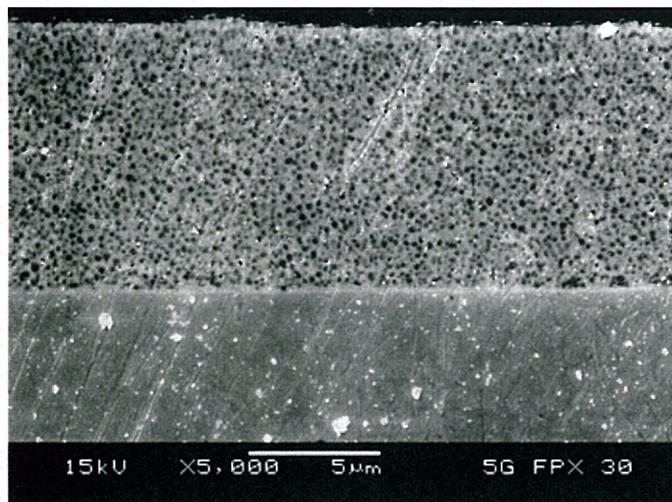
5,000倍



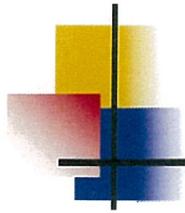
(含有率 10vol.%)



(含有率 25vol.%)



(含有率 33vol.%)

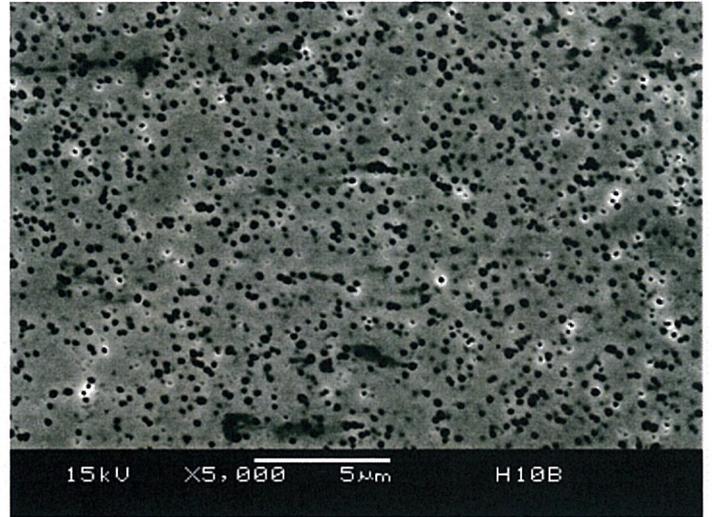
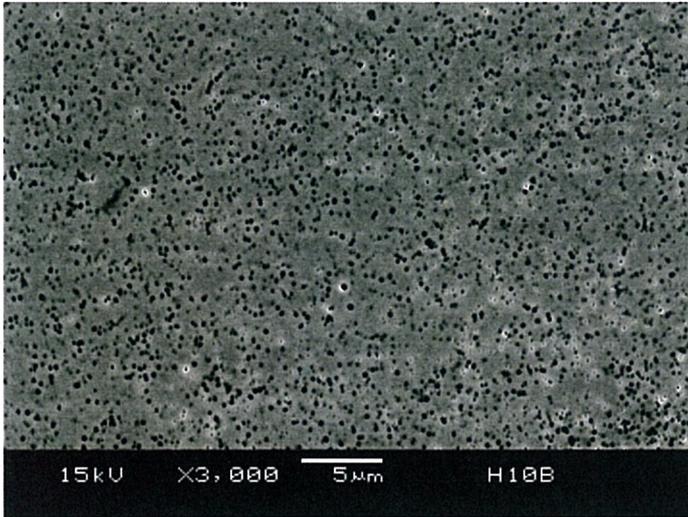


皮膜外觀 [表面写真] —SEM観察—

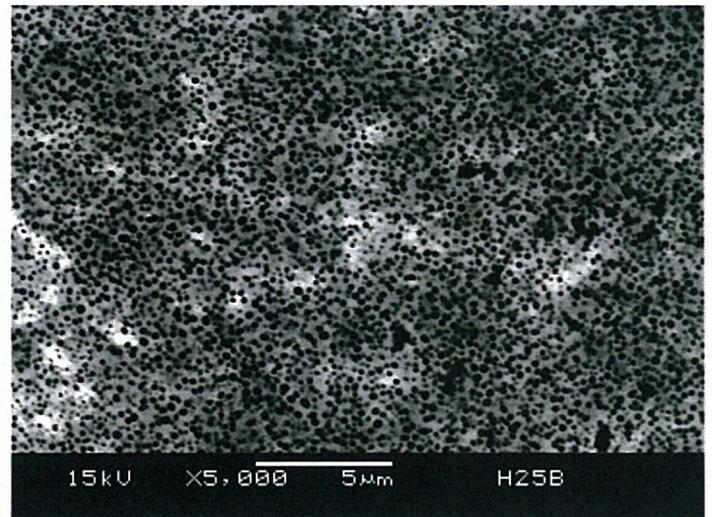
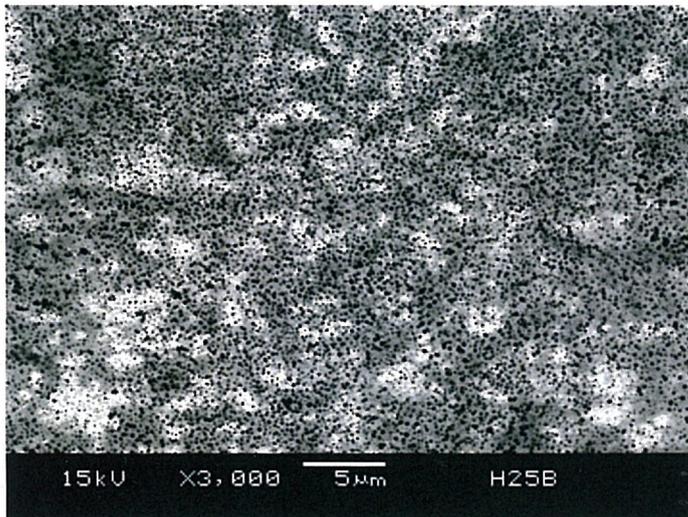
加速電圧: 15kV

3,000倍

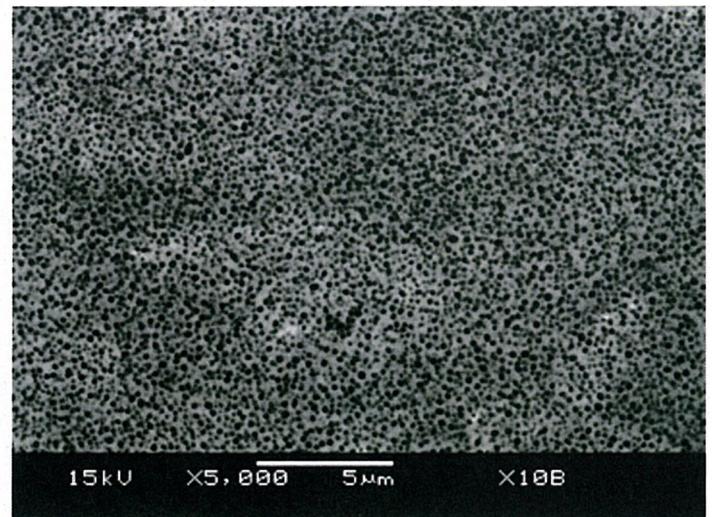
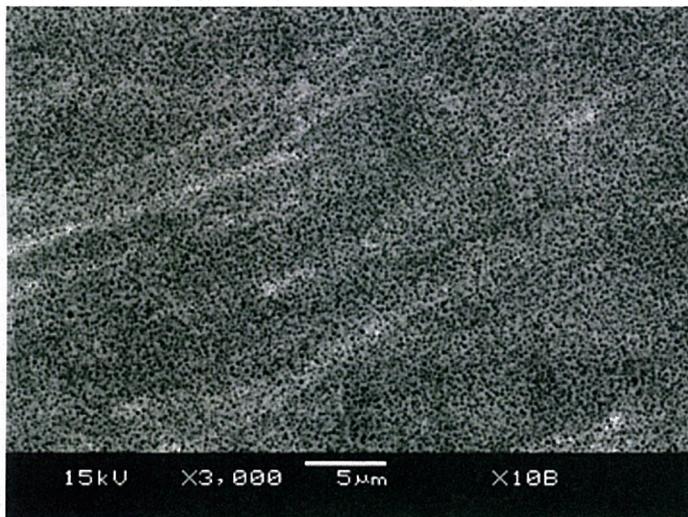
5,000倍



(含有率10vol.%)



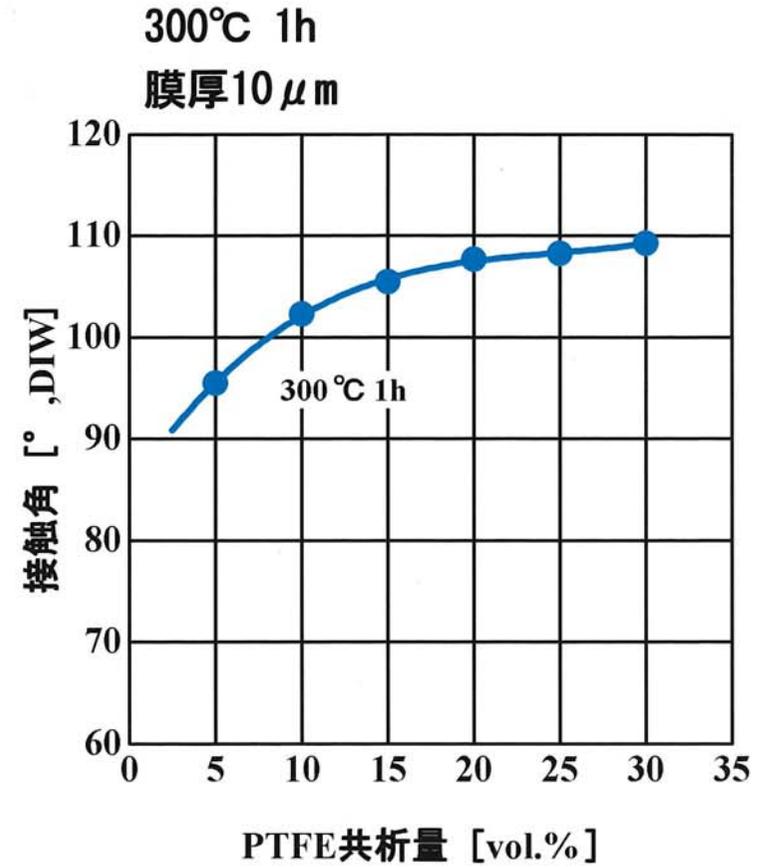
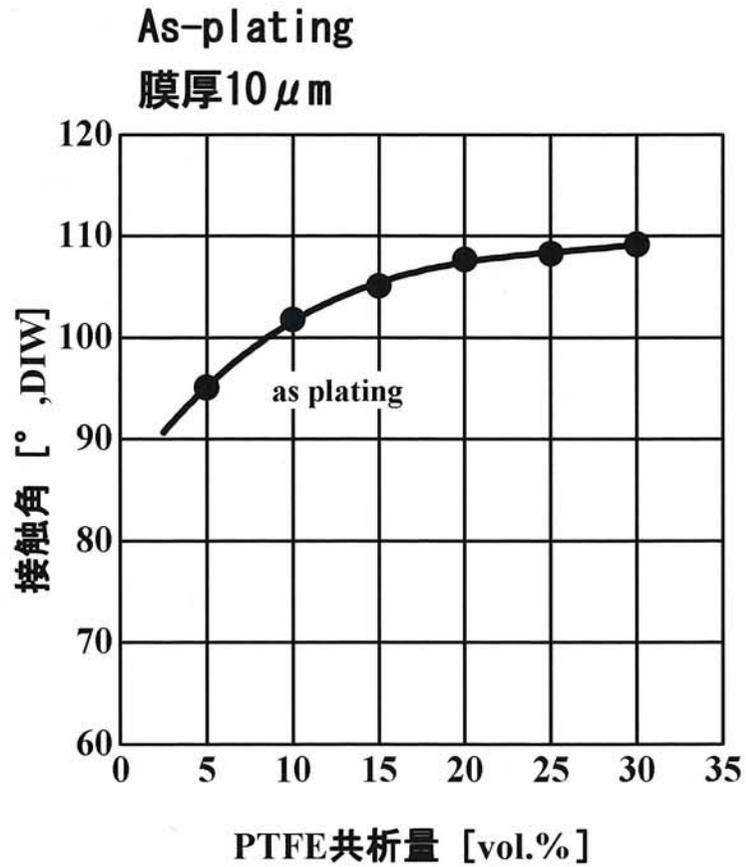
(含有率25vol.%)

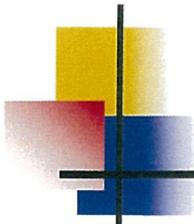


(含有率33vol.%)

皮膜特性 [接触角]

—共析量と接触角の関係—

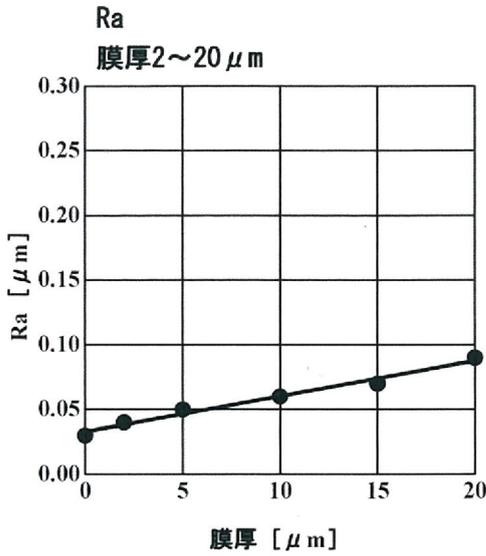




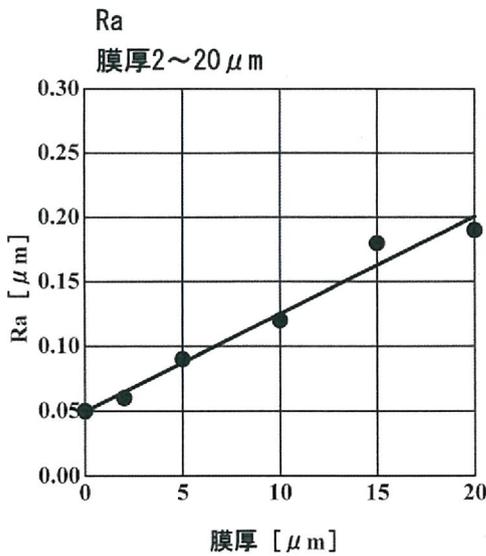
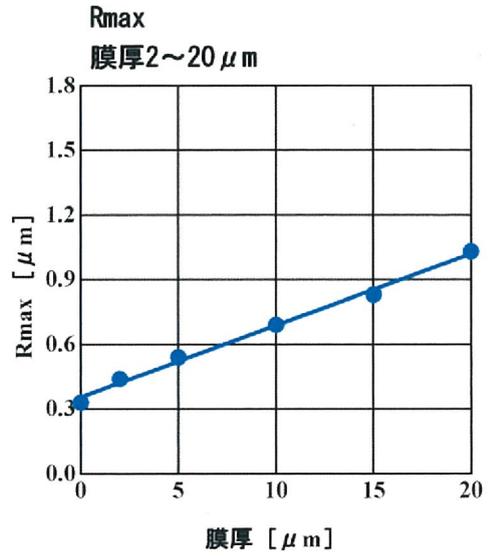
皮膜特性 [表面粗度]

—皮膜膜厚と表面粗度の関係—

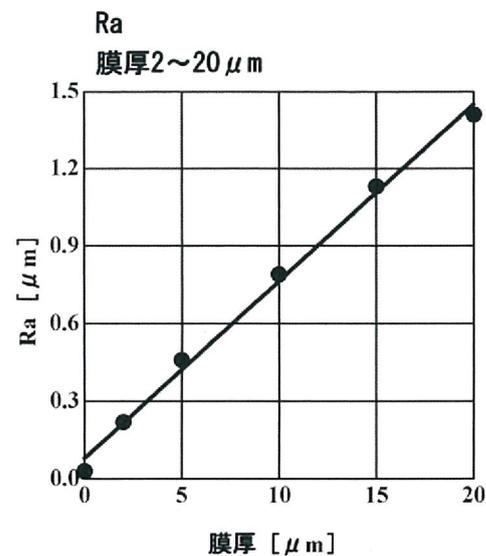
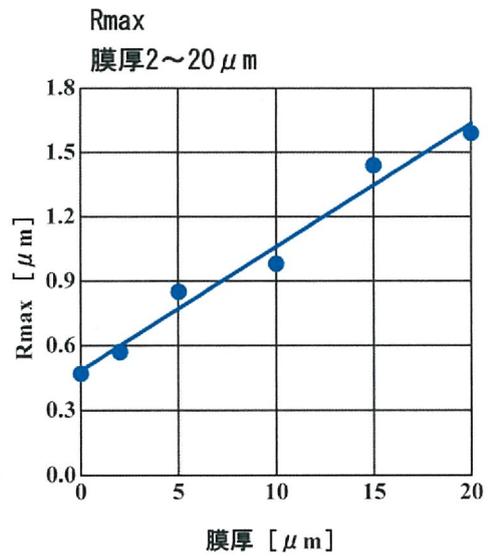
測定素材 (SUS304) 表面粗度 Ra:0.03 μm Rmax:0.3 μm



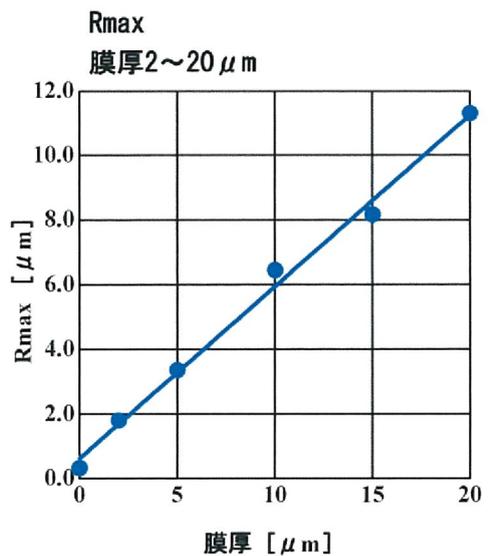
(含有率 10vol.%)



(含有率 25vol.%)



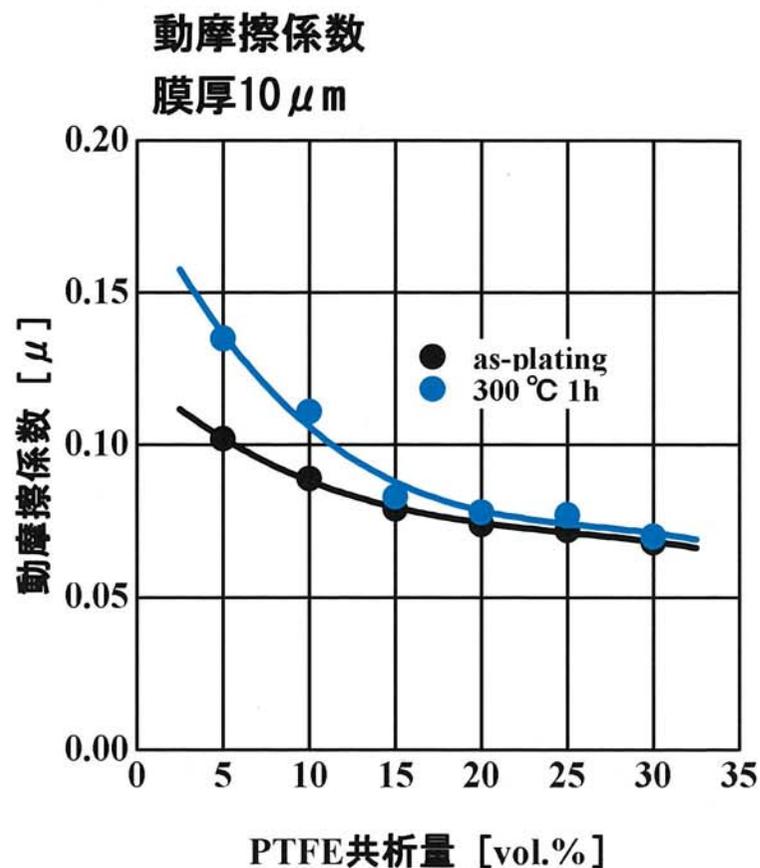
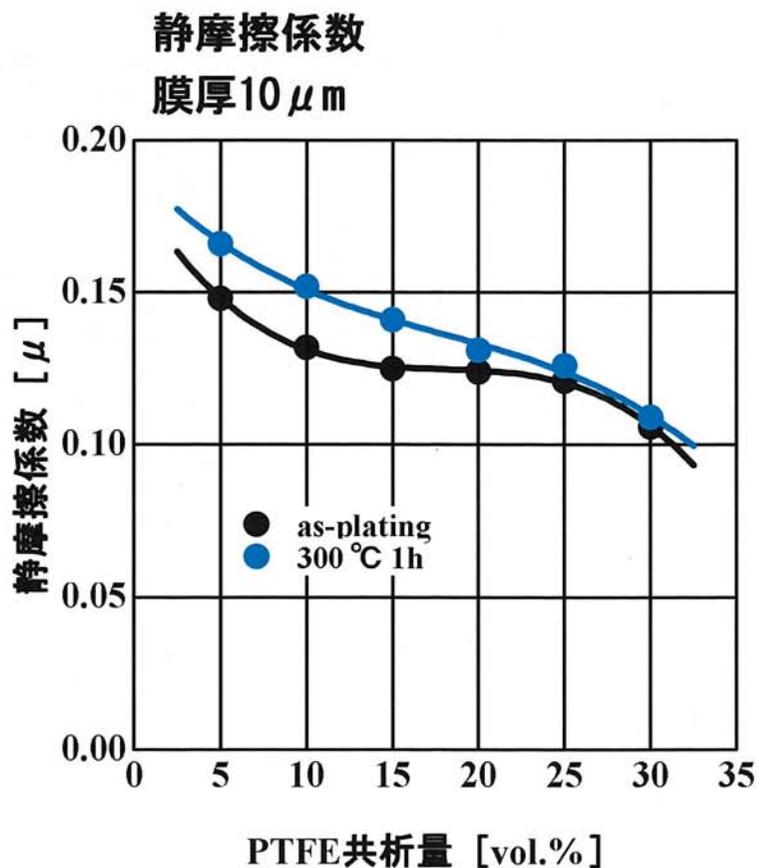
(含有率 33vol.%)

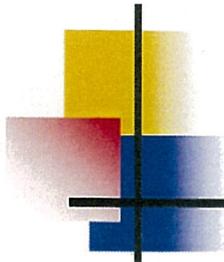


皮膜特性 [摩擦係数]

— 共析量と静・動摩擦係数の関係 —

圧子: $\phi 10$ SUS Ball 垂直荷重: 500gf 移動距離: 50mm/min.





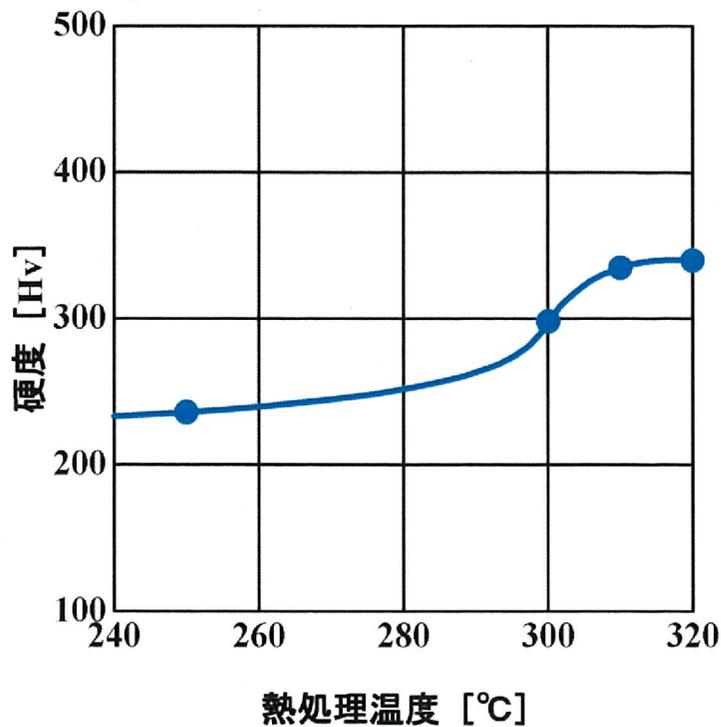
皮膜特性 [硬度]

— 熱処理時間・温度と硬度の関係 —

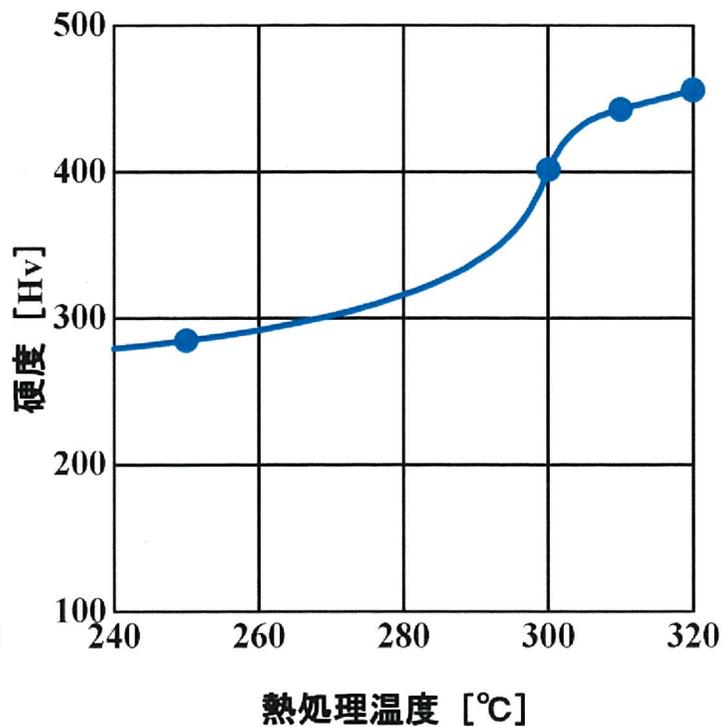
測定条件 荷重:50gf 保持時間:15sec 素材:SUS304

熱処理時間1h 膜厚10 μ m

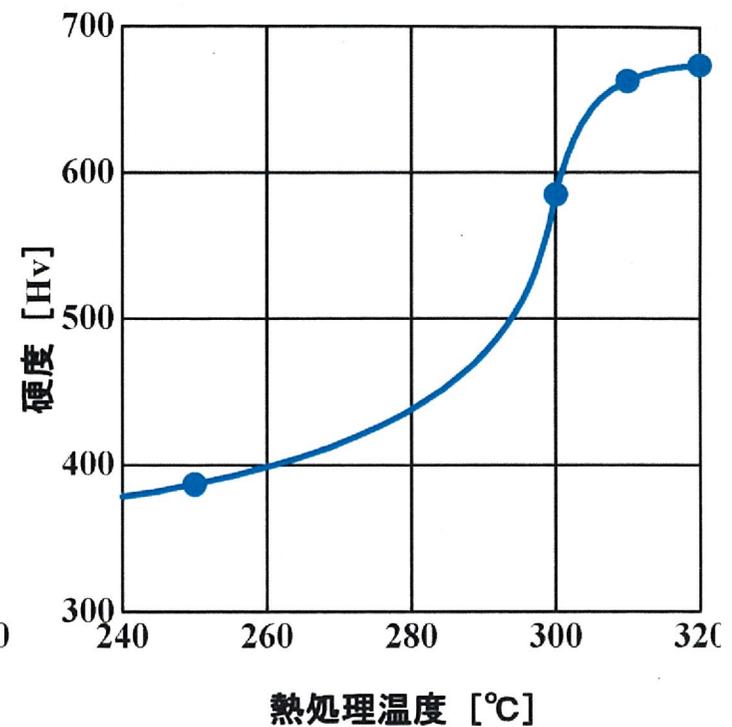
熱処理温度250~320 $^{\circ}$ C



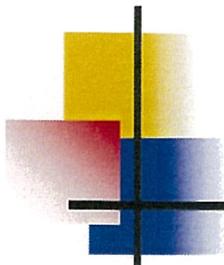
(含有率 33vol.%)



(含有率 25vol.%)



(含有率 10vol.%)



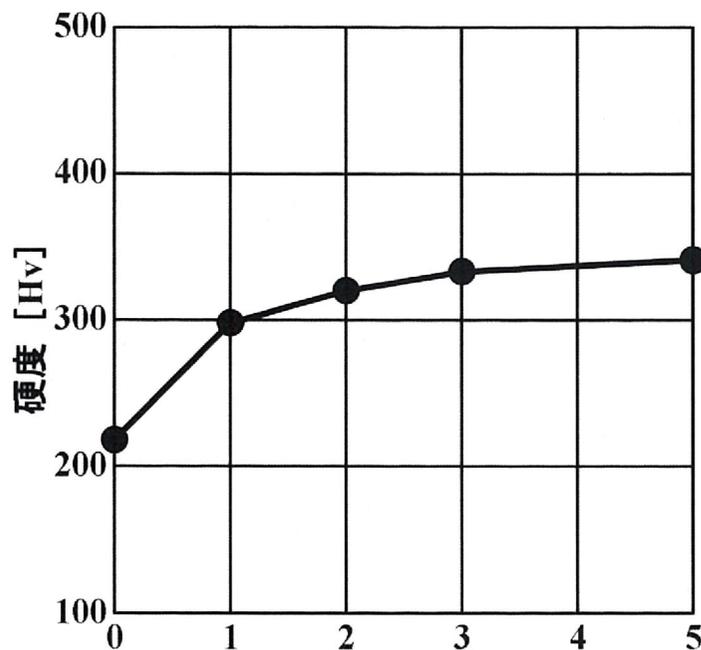
皮膜特性 [硬度]

— 熱処理時間・温度と硬度の関係 —

測定条件 荷重:50gf 保持時間:15sec 素材:SUS304

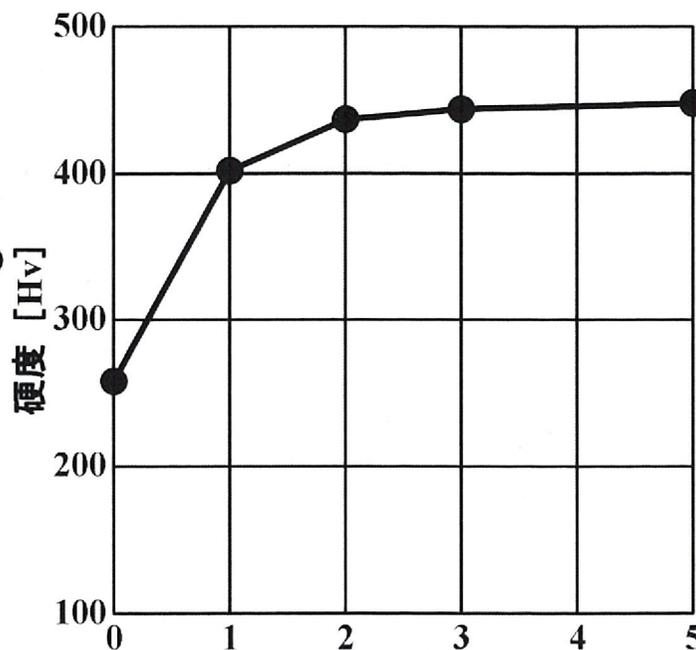
熱処理時間0~5h 膜厚10 μ m

熱処理温度300 $^{\circ}$ C



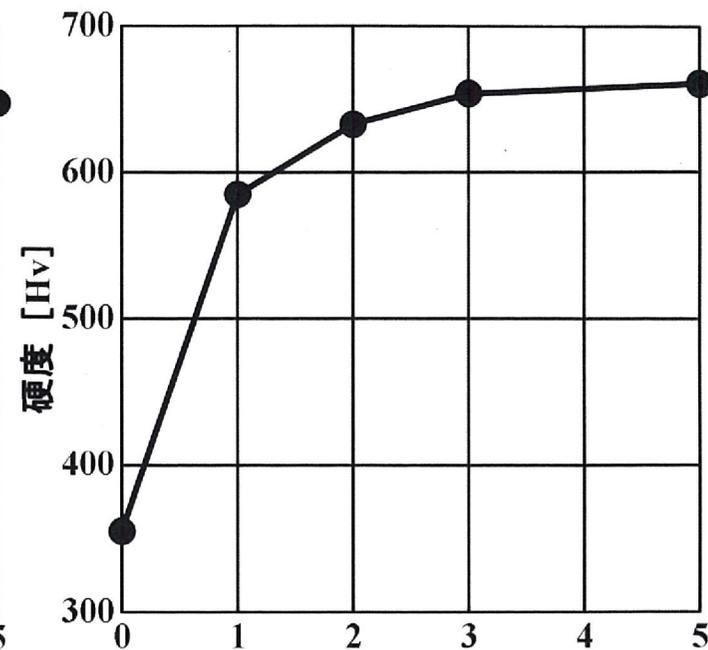
熱処理温度 [h]

(含有率 33vol.%)



熱処理時間 [h]

(含有率 25vol.%)



熱処理時間 [h]

(含有率 10vol.%)