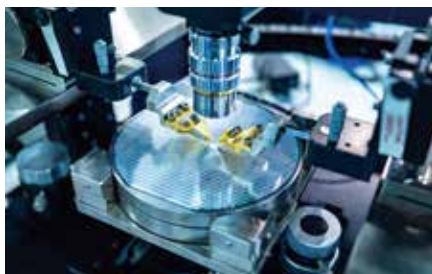


# For semiconductor manufacturing machine Crack inhibitor for aluminum hard anodizing

TOP STOUT AL

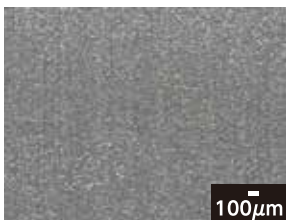
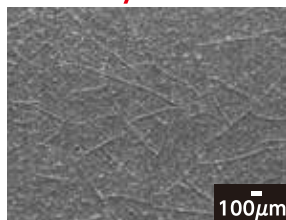
Heat crack resistance over 200°C

Provide hard anodizing films over Hv400



Application : Vacuum chamber, piston, cylinder

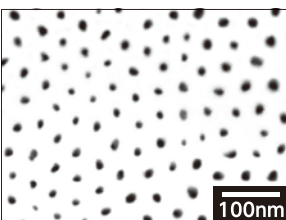
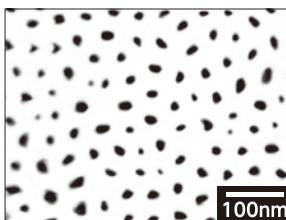
## High heat crack resistance

	TOP STOUT AL	Conventional hard anodizing
Heat treatment at 200°C Thickness: 25μm	<p>No crack</p> 	<p>Many cracks</p> 

## Low film stress

	TOP STOUT AL	Conventional hard anodizing
Heat treatment at 200°C Thickness: 60μm (one side)	<p>Small curve</p> 	<p>Large curve</p> 

## No need for bath cooling, hardness over Hv400

	TOP STOUT AL	Conventional hard anodizing
	20°C	5°C
Hardness	Hv 422	Hv 417
Surface FE-SEM image		



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