

Properties Chart

Film Characteristics ○...Good ○...Average △...Poor ×...Bad

Material	Film Thickness (μm)		Hardness [HV]	Characteristics			Remarks
	Recommended	Limit		Hardness	Generation Capabilities	Kashima Coat®/Secondary electrolytic processing	
A1050	30	50	350-450	○	○	○	<ul style="list-style-type: none"> Minimal additives other than aluminum result in excellent corrosion resistance as a raw material and good film generation.
A1100	30	50	350-450	○	○	○	
A2011	5	10	200-250	×	×	×	<ul style="list-style-type: none"> Not suitable for anodizing as it contains large Cu level of 5.0-6.0.
A2014	20	40	250-350	△	○	○	<ul style="list-style-type: none"> High-strength material, but particularly bad corrosion resistance due to Cu. Thick films of 20μm or higher may peel.
A2017	20	40	250-350	△	○	○	
A2024	20	40	250-350	△	○	○	
A4032	20	50	350-450	○	○	○	<ul style="list-style-type: none"> Si level of 11.0-13.5 results in grey appearance.
A5052 <small>Recommended Materials</small>	20	50	350-450	○	○	○	<ul style="list-style-type: none"> Aluminum based material with medium strength and good corrosion resistance. Generates good quality film. Good compatibility with Kashima Coat®.
A5056	10	20	350-450	○	△	×	<ul style="list-style-type: none"> Bad compatibility with Kashima Coat®. Tendency to crack with increased film thickness. Film may peel.
A5083	20	50	350-450	○	○	○	<ul style="list-style-type: none"> Good strength and corrosion resistance, ideal material for welded structures.
A6061 <small>Recommended Materials</small>	20	50	350-450	○	○	○	<ul style="list-style-type: none"> Segregated patterns may appear after anodizing due to differences in manufacturers and methods of heat treatment. Good compatibility with Kashima Coat®.
A6063	20	50	350-450	○	○	○	<ul style="list-style-type: none"> Outstanding material for extrusion processing. Good quality film containing a large number of cracks is generated.
A7075	15	30	250-400	○	○	○	<ul style="list-style-type: none"> Extremely strong material, but appalling corrosion resistance makes it susceptible to corrosion due to its Cu and Zn content. Thick films of 20μm or higher may peel.
AC2A·B	20	30	250-350	△	○	○	<ul style="list-style-type: none"> Pores are visible after anodizing due to the material's rough surface.
AC4C	20	40	300-400	○	○	○	<ul style="list-style-type: none"> Good film forming properties and surface roughness among cast metals. Si level of 6.5.0-7.5 results in grey appearance.
AC7A·B	20	40	300-400	○	○	○	<ul style="list-style-type: none"> Good film forming properties comparatively among cast metals. Results in grey appearance as it contains large Mg level of 3.5-5.5.
AC8A	20	40	300-400	○	○	○	<ul style="list-style-type: none"> Superb strength and wear resistance, ideal material for engine pistons. Results in grey appearance as it contains large Si level of 11.0-13.0.
ADC6	20	40	350-450	○	○	○	<ul style="list-style-type: none"> Good film generation among die-cast materials.
ADC12 <small>Recommended Materials</small>	10	20	250-350	△	○	○	<ul style="list-style-type: none"> Difficult to process due to thick film caused by additional elements. Contaminants (silicon, release agent) left on surface, obvious irregular coloring. Good film generation among die-cast materials. Results in grey appearance as it contains large Si level of 9.6-12.0.