

Aluminum Alloy Characteristics ALUMINUM PRODUCTS NON-HEAT TREATABLE GRADES

ALUMINUM PRODUCTS NON-HEAT TREATABLE GRADES													
GRADE &NOMINAL	ALLOY	APPLICATIONS	APPLICATIONS TEMPER	TYPICAL PROPIERTIES				CORROSION	FORM-	MACHIN-	WELDABILITY		
COMPOSITION	DESCRIPTION			TENSILE STRENGTH KSI	YIELD STRENGTH KSI	% ELONGATION		RESISTANCE*	ABILITY*	AB1LITY*	GAS	INERT ARC	RESISTANCE
						SHEET	ROD						
5052 2.5% Mg. .25% Cr.	High strength, good workability and toughness. Good salt water corrosion resistance and other marine applications Anodic-coating bright and clear.	Truck parts, fencing,bus bodies, kitchen cabinets, marine appplications, homeappliances, chemical drums, boat hulls.	0 H32 H34 H36 H38	28 33 38 40 42	13 28 31 35 37	25 12 10 8 7	30 18 14 10 8	1 1 1 1	1 2 3 3	4 3 3 3 3	1 1 1 1	1 1 1 1 1	2 1 1 1
5086 4.0% Mg. .25% Cr.	Good formabilitycombined with excellent welding characteristics and corrosion resistance	cranes, boats, military applications high welding strength characteristics pressure vessels	H112 H32 H34	38 39 42 47	17 19 30 37	22 14 10 12	- - -	1 1 2	1 2 2 2	4 3 4 3	3 3 3 3	1 1 1	2 1 1 1

* 1 - Superior * 4 – Poor

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2024 4.5% Cu. .6% Mn. 1.5%Mg.	Strength exceeding 2017. Arc and gas welding 2024 not generally recommended	Aircraft alloy, hinges, scientific instruments, ortho-pedic equipmet,most cold headed fasteners.	0 T3 T4 T351 T36	27 70 68 72	11 50 47 57	20 18 20 19 13	-	3 3 3 3	2 3 3 4	2 3 2 3	4 4 4 4	3 3 3	3 2 2 2
6061 1.0%Mg. .25% Cu. &Cr. .6% Si	Combines relatively high-strength, good workability and corrosion; widely available in most forms, structurals.	Chemical equipment, fire ladders, truck and bus bodies, scaffolding mine skips, furniture, marine equipment, molding, transmission towers, awnings.	0 T4 T451 T6 T651	18 34 45	8 21 40	25 22 12	30 25 17	1 1 1	1 3 3	2 3 3	1 1	1 1	2 1 1
7075 5.6% Zn. 2.5% Mg. 1.6% Cu. .3% Cr.	Very high strength. Used for highly stressed structural parts.	Aircraft	T0 T6 T651	33 83	15 13	17	16	2 3	2	2	4	4	2 2

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