THE AVIATION POINT · THEAVIATIONPOINT.COM · THE AVIATION POINT · THEAVIATIONPOINT.COM

The Aviation Point

Materials

One data sheet per material: designation, specifications, properties and stock forms, read from the guide of each one.

The family

Material	Class	In short	Guide
2024-T3	Aluminum	wrought aluminum alloy	Guide
Alclad 2024-T3	Aluminum	wrought aluminum alloy	Guide
2024-T4 / T351	Aluminum	wrought aluminum alloy	Guide
6061-T6	Aluminum	wrought aluminum alloy	Guide
7075-T6	Aluminum	wrought aluminum alloy	Guide
Alclad 7075-T6	Aluminum	wrought aluminum alloy	Guide
7075-O	Aluminum	wrought aluminum alloy	Guide
5052	Aluminum	wrought aluminum alloy	Guide
3003	Aluminum	wrought aluminum alloy	Guide
2014	Aluminum	wrought aluminum alloy	Guide
2017	Aluminum	wrought aluminum alloy	Guide
1100	Aluminum	wrought aluminum alloy	Guide
2117	Aluminum	wrought aluminum alloy	Guide
2219	Aluminum	wrought aluminum alloy	Guide
5056	Aluminum	wrought aluminum alloy	Guide
5086	Aluminum	wrought aluminum alloy	Guide
6063	Aluminum	wrought aluminum alloy	Guide
7050	Aluminum	wrought aluminum alloy	Guide
7178	Aluminum	wrought aluminum alloy	Guide
4130	Steel and stainless	chromium-molybdenum steel	Guide
4140	Steel and stainless	alloy steel	Guide
4340	Steel and stainless	alloy steel	Guide
8740	Steel and stainless	alloy steel	Guide
H-11	Steel and stainless	hot-work die steel	Guide
301	Steel and stainless	austenitic stainless steel	Guide
302	Steel and stainless	austenitic stainless steel	Guide
304	Steel and stainless	austenitic stainless steel	Guide
316	Steel and stainless	austenitic stainless steel	Guide
321	Steel and stainless	austenitic stainless steel	Guide
347	Steel and stainless	austenitic stainless steel	Guide
15-5PH	Steel and stainless	precipitation-hardening stainless steel	Guide
17-4PH	Steel and stainless	precipitation-hardening stainless steel	Guide
17-7PH	Steel and stainless	precipitation-hardening stainless steel	Guide
A-286	Steel and stainless	iron-base superalloy	Guide
Inconel 625	Nickel alloys	nickel-base alloy	Guide
Inconel 718	Nickel alloys	nickel-base alloy	Guide
Ti-6Al-4V	Titanium	alpha-beta titanium alloy	Guide
Ti-6Al-2Sn-4Zr-2Mo	Titanium	titanium alloy	Guide
Ti-3Al-2.5V	Titanium	titanium alloy	Guide
CP titanium Grade 1	Titanium	commercially pure titanium	Guide
CP titanium Grade 2	Titanium	commercially pure titanium	Guide
CP titanium Grade 3	Titanium	commercially pure titanium	Guide
CP titanium Grade 4	Titanium	commercially pure titanium	Guide
Toray T700S	Composites	standard modulus carbon fiber	Guide
Toray T800S	Composites	intermediate modulus carbon fiber	Guide

Material	Class	In short	Guide
Unidirectional carbon	Composites	carbon tape and unidirectional fabric	Guide
3K carbon fabric	Composites	woven carbon fabric	Guide
E-glass	Composites	electrical glass fiber	Guide
S-glass	Composites	high strength glass fiber	Guide
Glass fabric styles	Composites	glass fabric by style number	Guide
Kevlar aramid	Composites	aramid fiber	Guide
Nomex honeycomb	Composites	aramid paper honeycomb core	Guide
Aluminum honeycomb	Composites	aluminum honeycomb core	Guide
Foam core	Composites	closed-cell foam core	Guide
Epoxy resin	Composites	laminating and prepreg resin	Guide
Polyester resin	Composites	thermoset resin	Guide
Vinyl ester resin	Composites	thermoset resin	Guide
Phenolic resin	Composites	thermoset resin	Guide
Prepreg	Composites	fibre pre-impregnated with resin	Guide
Peel ply	Composites	bagging consumable	Guide
Vacuum bagging consumables	Composites	bagging consumables	Guide
Resin fillers	Composites	resin fillers	Guide
PS-890	Sealants	polysulfide sealant	Guide
PR-1440	Sealants	polysulfide sealant	Guide
PR-1422	Sealants	polysulfide sealant	Guide
PR-1776M	Sealants	polysulfide sealant	Guide
CS 3201	Sealants	polysulfide sealant	Guide
Chemseal CS3204	Sealants	polysulfide sealant	Guide
PR-1750	Sealants	polysulfide sealant	Guide
PS-870	Sealants	polysulfide sealant	Guide
PR-812	Sealants	firewall sealant	Guide
DOWSIL 732	Sealants	silicone sealant	Guide
RTV3145	Sealants	silicone sealant	Guide
ACF-50	Chemicals	corrosion inhibiting compound	Guide
CorrosionX Aviation	Chemicals	corrosion inhibitor	Guide
LPS 3	Chemicals	rust inhibitor	Guide
Boeshield T-9	Chemicals	corrosion protectant	Guide
Alodine 1200S	Chemicals	conversion coating	Guide
Alodine 1201	Chemicals	conversion coating	Guide
Alodine 1001	Chemicals	conversion coating	Guide
Alumiprep 33	Chemicals	aluminum cleaner	Guide
Desoprime HS CA7233	Chemicals	epoxy primer	Guide
Desoprime CA7502	Chemicals	chrome-free epoxy primer	Guide
Epoxy primer	Chemicals	two-part primer	Guide
EA 9394 AERO	Chemicals	structural paste adhesive	Guide
MEK	Chemicals	cleaning solvent	Guide
Isopropyl alcohol	Chemicals	cleaning solvent	Guide
Acetone	Chemicals	cleaning solvent	Guide
Boelube solid	Chemicals	solid cutting lubricant	Guide

SCAN · OPEN THIS DATA SHEET
theaviationpoint.com/parts/materials/

Reference data. The aircraft manufacturer's documentation (SRM / IPC) takes precedence.

THE AVIATION POINT · THEAVIATIONPOINT.COM · THE AVIATION POINT · THEAVIATIONPOINT.COM