

# アルミ合金データ

## 板

SI単位から従来単位への換算

$Y(\text{kgf/mm}^2) = X(\text{N/mm}^2) \div 9.80665$

引張強さ、耐力  $= X(\text{N/mm}^2) \times 0.101972$

アルミニウム合金の機械的性質引張試験

種類	質別	記号	厚 さ		引張強さ N/mm <sup>2</sup>	耐力 N/mm <sup>2</sup>	伸 び %	
1080	○	1080P	0.5以上	0.8未満	54以上93以下	—	25以上	
			0.8 "	1.3 "	"	15以上	30 "	
			1.3 "	3.0 "	"	"	35 "	
		3.0 "	12以下	"	"	35 "		
	H14 H24	1080P	0.5以上	0.8未満	84以上118以下	—	3以上	
			0.8 "	1.3 "	"	64以上	4 "	
	1070P	1.3 "	3.0 "	"	"	5 "		
		3.0 "	12以下	"	"	6 "		
	1070	H18	1080P	0.5以上	0.8未満	118以上	—	2以上
				0.8 "	1.3 "	"	—	3 "
		1070P	1.3 "	3.0 "	"	—	4 "	
			6以上	12未満	69以上	34以上	15以上	
H112	1080P	12 "	25 "	59 "	25 "	20 "		
		2.5 "	50以下	54 "	20 "	25 "		
1050	○	1050P	0.5以上	0.8未満	59以上98以下	—	20以上	
			0.8 "	1.3 "	"	20以上	35 "	
			1.3 "	3.0 "	"	"	30 "	
		3.0 "	12 "	"	"	30 "		
	H12 H22	1050P	0.5 "	0.8 "	78以上118以下	—	4以上	
			0.8 "	1.3 "	"	64以上	6 "	
			1.3 "	3.0 "	"	"	8 "	
			3.0 "	12 "	"	"	9 "	
	H14 H24	1050P	0.5 "	0.8 "	94以上127以下	—	3以上	
			0.8 "	1.3 "	"	74以上	4 "	
			1.3 "	3.0 "	"	"	5 "	
			3.0 "	12 "	"	"	6 "	
H16 H26	1050P	0.5 "	0.8 "	118以上147以下	—	2以上		
		0.8 "	1.3 "	"	84以上	3 "		
		1.3 "	3.0 "	"	"	4 "		
		3.0 "	12 "	"	"	4 "		
H18	1050P	0.5 "	0.8 "	127以上	—	2以上		
		0.8 "	1.3 "	"	—	3 "		
H112	1050P	1.3 "	3.0 "	"	—	4 "		
		6.0 "	12 "	78以上	44以上	10以上		
H112	1050P	12 "	25 "	69 "	34 "	16 "		
		12 "	25 "	69 "	34 "	16 "		
1100	○	1100P	0.5 "	0.8 "	74以上108以下	—	20以上	
			0.8 "	1.3 "	"	25以上	25 "	
			1.3 "	3.0 "	"	"	30 "	
		3.0 "	12 "	"	"	28 "		
	H12 H22	1100P	0.5 "	0.8 "	94以上127以下	—	4以上	
			0.8 "	1.3 "	"	74以上	6 "	
			1.3 "	3.0 "	"	"	8 "	
			3.0 "	12 "	"	"	9 "	
	H14 H24	1100P	0.5 "	0.8 "	118以上147以下	—	3以上	
			0.8 "	1.3 "	"	93以上	4 "	
			1.3 "	3.0 "	"	"	5 "	
			3.0 "	12 "	"	"	6 "	
H16 H26	1100P	0.5 "	0.8 "	137以上167以下	—	2以上		
		0.8 "	1.3 "	"	118以上	3 "		
		1.3 "	3.0 "	"	"	4 "		
		3.0 "	6.0 "	"	"	4 "		
H18	1100P	0.5 "	0.8 "	157以上	—	2以上		
		0.8 "	1.3 "	"	—	3 "		
		1.3 "	3.0 "	"	—	4 "		
		6.0 "	12 "	93以上	49以上	9以上		
H112	1100P	12 "	25 "	83 "	34 "	14 "		
		12 "	25 "	83 "	34 "	14 "		
2014	○	2014P	0.5 "	1.5 "	216以下	108以下	16以上	
			1.5 "	3.0 "	"	"	"	
			3.0 "	6.0 "	"	"	"	
			6.0 "	12 "	"	"	"	

アルミニウム合金の機械的性質引張試験

種類	質別	記号	厚 さ		引張強さ N/mm <sup>2</sup>	耐力 N/mm <sup>2</sup>	伸 び %
2014	T4	2014P	0.5以上	1.5未満	412以上	245以上	14以上
			1.5 "	3.0 "	"	"	"
			3.0 "	6.0 "	"	"	"
			0.5 "	1.0未満	412以上	245以上	14以上
	T3	2014P	1.0 "	3.0 "	"	"	"
			3.0 "	6.0 "	"	"	"
			0.5 "	1.0未満	441以上	392以上	6以上
			1.0 "	3.0 "	461 "	402 "	7 "
	T6	2014P	3.0 "	6.0以下	"	"	"
			0.4 "	0.5未満	216以下	—	12以上
			0.5 "	1.5 "	"	108以下	"
			1.5 "	3.0 "	"	"	"
○	2017P	3.0 "	6.0 "	"	"	"	
		6.0 "	12 "	"	"	"	
		0.4 "	0.5未満	353以上	—	12以上	
		0.5 "	1.5 "	"	196以上	15 "	
T4	2017P	1.5 "	3.0 "	"	"	17 "	
		3.0 "	6.0以下	"	"	15 "	
		0.4 "	0.5未満	373以上	—	12以上	
		0.5 "	1.5 "	"	216以上	15 "	
T3	2017P	1.5 "	3.0 "	"	"	17 "	
		3.0 "	6.0以下	"	"	15 "	
		0.4 "	0.5未満	216以下	—	12以上	
		0.5 "	1.5 "	"	98以上	"	
○	2024P	1.5 "	3.0 "	"	"	"	
		3.0 "	6.0 "	"	"	"	
		6.0 "	12 "	"	"	"	
		0.4 "	0.5未満	431以上	—	12以上	
T4	2024P	0.5 "	1.5 "	"	275以上	15 "	
		1.5 "	3.0 "	"	"	"	
		3.0 "	6.0以下	"	"	"	
		6.0 "	12 "	"	"	"	
T3	2024P	0.5 "	0.5未満	441以上	—	12以上	
		0.8 "	1.5 "	"	294以上	15 "	
		1.3 "	3.0 "	"	"	"	
		3.0 "	6.0以下	"	"	"	
3003	○	3003P	0.5 "	0.8未満	94以上127以下	—	20以上
			0.8 "	1.3 "	"	34以上	23 "
			1.3 "	3.0 "	"	"	"
			3.0 "	4.0 "	"	"	"
	3203P	4.0 "	6.0 "	"	"	"	
		6.0 "	12以下	"	"	"	
		0.5 "	0.8未満	118以上157以下	—	4以上	
		0.8 "	1.3 "	"	84以上	5 "	
	H12 H22	3003P	1.3 "	3.0 "	"	"	6 "
			3.0 "	4.0 "	"	"	7 "
			4.0 "	6.0 "	"	"	8 "
			6.0 "	12以下	"	"	9 "
H14 H24	3003P	0.5 "	0.8未満	137以上177以下	—	3以上	
		0.8 "	1.3 "	"	118以上	4 "	
		1.3 "	3.0 "	"	"	5 "	
		3.0 "	4.0 "	"	"	6 "	
H16 H26	3003P	4.0 "	6.0 "	"	"	7 "	
		6.0 "	12 "	"	"	8 "	
		0.5 "	0.8未満	167以上206以下	—	2以上	
		0.8 "	1.3 "	"	147以上	3 "	
H18	3003P	1.3 "	3.0 "	"	"	4 "	
		3.0 "	6.0 "	"	"	"	
		0.5 "	0.8未満	186以上	—	2以上	
		0.8 "	1.3 "	"	167以上	3 "	
H18	3203P	3.0 "	6.0 "	"	"	"	
		1.3 "	3.0以下	"	"	4 "	

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3003 3203	H112	3003P	6.0以上	12未満	118以上	69以上	8以上
			12.0 "	25 "	108 "	39 "	12 "
		3203P	25.0 "	50以下	98 "	"	"
			3.0 "	0.8未満	108以上147以下	—	18以上
5005	○	5005P	0.5以上	1.3 "	"	34以上	20 "
			0.8 "	3.0 "	"	"	21 "
			1.3 "	6.0 "	"	"	22 "
			3.0 "	12以下	"	"	"
	H12 H22 H32	5005P	0.5以上	0.8未満	118以上157以下	—	3以上
			0.8 "	1.3 "	"	84以上	4 "
			1.3 "	3.0 "	"	"	5 "
			3.0 "	4.0 "	"	"	6 "
	H16 H26 H36	5005P	4.0 "	6.0 "	"	"	7 "
			6.0 "	12以下	"	"	8 "
			0.5 "	0.8未満	137以上177以下	—	1以上
			0.8 "	1.3 "	"	108以上	2 "
H14 H24 H34	5005P	1.3 "	3.0 "	"	"	3 "	
		3.0 "	4.0 "	"	"	5 "	
		0.5 "	0.8未満	157以上196以下	—	1以上	
		0.8 "	1.3 "	"	127以上	2 "	
H16 H26 H36	5005P	1.3 "	3.0 "	"	"	3 "	
		3.0 "	6.0以下	"	"	"	
		0.5 "	0.8未満	177以上	—	1以上	
		0.8 "	1.3 "	"	—	2 "	
H18 H38	5005P	1.3 "	3.0以下	"	—	3 "	
		6.0 "	12未満	118以上	—	8以上	
		12 "	25 "	108 "	—	12 "	
		25 "	50以下	"	—	"	
5052	○	5052P	0.5 "	0.8未満	177以上216以下	—	16以上
			0.8 "	1.3以下	"	64以上	18 "
			1.3 "	3.0 "	"	"	19 "
			3.0 "	6.0 "	"	"	20 "
	H12 H22 H32	5052P	6.0 "	12 "	"	"	18 "
			12 "	50以下	"	"	"
			0.5 "	0.8未満	216以上265以下	—	5以上
			0.8 "	1.3 "	"	157以上	"
	H14 H24 H34	5052P	1.3 "	3.0 "	"	"	7以上
			3.0 "	6.0 "	"	"	9 "
			6.0 "	12以下	"	"	11 "
			0.5 "	0.8未満	235以上284以下	—	4以上
H16 H26 H36	5052P	0.8 "	1.3 "	"	177以上	"	
		1.3 "	3.0 "	"	"	6以上	
		3.0 "	6.0 "	"	"	7 "	
		6.0 "	12以下	"	"	10 "	
H16 H26 H36	5052P	0.5 "	0.8未満	255以上304以下	—	3 "	
		0.8 "	6以下	"	206以上	4 "	
		0.5 "	0.8未満	275以上	—	3 "	
		0.8 "	3以下	"	226以上	4 "	
H18	5052P	6.0 "	12未満	196以上	108以上	7 "	
		12 "	50以下	177 "	64以上	12 "	
		0.5 "	0.8未満	206以上284以下	—	12 "	
		0.8 "	1.3 "	"	74以上	14 "	
○	5154P	1.3 "	3.0 "	"	"	16 "	
		3.0 "	50以下	"	"	18 "	
		0.5 "	0.8未満	255以上294以下	—	5以上	
		0.8 "	1.3 "	"	177以上	"	
H12 H22 H32	5154P	1.3 "	6.0 "	"	"	8以上	
		6.0 "	12以下	"	"	12 "	
		0.5 "	0.8未満	275以上	—	10 "	
		0.8 "	1.3 "	"	461以上	"	

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5154	H14 H22 H32	5154P	0.5以上	0.8未満	275以上314以下	—	4以上
			0.8 "	1.3 "	"	206以上	"
			1.3 "	4.0 "	"	"	6以上
			4.0 "	6.0 "	"	"	7 "
	H16 H26 H36	5154P	6.0 "	12以下	"	"	10 "
			0.5 "	0.8未満	294以上333以下	—	3以上
			0.8 "	1.3 "	"	226以上	"
			1.3 "	3.0 "	"	"	4以上
	H18 H38	5154P	3.0 "	6以下	"	"	5 "
			0.5 "	0.8未満	314以上	—	3以上
			0.8 "	1.3 "	"	245以上	"
			1.3 "	3以下	"	"	4以上
H112	5154P	6.0 "	12未満	226以上	127以上	8以上	
		12 "	50以下	54 "	74 "	11以上	
		0.5 "	0.8未満	275以上353以下	—	16以上	
		0.8 "	50以下	"	127以上196以下	"	
○	A5083P	0.5 "	0.8未満	314以上373以下	—	8 "	
		0.8 "	3.0 "	"	235以上304以下	"	
		3.0 "	12以下	"	—	10 "	
		6.0 "	50以下	275以上	127以上	12 "	
5083	○	A5083P	0.5 "	0.8未満	275以上353以下	—	16以上
			0.8 "	50以下	"	127以上196以下	"
			0.5 "	0.8未満	314以上373以下	—	8 "
			0.8 "	3.0 "	"	235以上304以下	"
	H22 H32	A5083P	3.0 "	12以下	"	—	10 "
			6.0 "	50以下	275以上	127以上	12 "
			0.2 "	0.3未満	84以上127以下	—	10 "
			0.3 "	0.5 "	"	—	15 "
	○	A5NO1P	0.5 "	1.3 "	"	—	20 "
			1.3 "	6以下	"	—	25 "
			0.2 "	0.3未満	108以上147以下	—	2 "
			0.3 "	0.5 "	"	—	3 "
H12 H22	A5NO1P	0.5 "	0.8 "	"	—	4 "	
		0.8 "	1.3 "	"	—	6 "	
		1.3 "	3.0 "	"	—	8 "	
		3.0 "	6以下	"	—	9 "	
5N01	○	A5NO1P	0.2 "	0.3未満	127以上167以下	—	1 "
			0.3 "	0.5 "	"	—	2 "
			0.5 "	0.8 "	"	—	3 "
			0.8 "	1.3 "	"	—	4 "
	H14 H24	A5NO1P	1.3 "	3.0 "	"	—	5 "
			3.0 "	6以下	"	—	6 "
			0.2 "	0.5未満	147以上186以下	—	1 "
			0.5 "	0.8 "	"	—	2 "
	H16 H26	A5NO1P	1.3 "	1.3 "	"	—	3 "
			3.0 "	3以下	"	—	4 "
			0.2 "	0.5未満	167以上	—	1 "
			0.5 "	0.8 "	"	—	2 "
H18	A5NO1P	0.8 "	1.3 "	"	—	3 "	
		1.3 "	3以下	"	—	4 "	
		0.4 "	0.5未満	147以下	—	14 "	