Basic Metals, Inc.

The Cutting Edge Source
For Your Metal Needs

5005 Aluminum Alloy

Alloy / Temper	Specified Thickness Range	Ultimate		Yield		Elongation Percent Min. in 2 in. or 4D
		Min.	Max.	Min.	Max.	
5005 / O	.006 - .007	15	21	5	----	12
	.008 - .012	15	21	5	----	14
	.013 - .019	15	21	5	----	16
	.020 - .031	15	21	5	----	18
	.032 - .050	15	21	5	----	20
	.051 - .113	15	21	5	----	21
	.114 - .249	15	21	5	----	22
	.250 - 3.000	15	21	5	----	22
5005 / H12	.017 - .019	18	24	14	----	2
	.020 - .031	18	24	14	----	3
	.032 - .050	18	24	14	----	4
	.051 - .113	18	24	14	----	6
	.114 - .161	18	24	14	----	7
	.162 - .249	18	24	14	----	8
	.250 - .499	18	24	14	----	9
	.500 - 2.000	18	24	14	----	10
5005 / H14	.009 - .031	21	27	17	----	1
	.032 - .050	21	27	17	----	2
	.051 - .113	21	27	17	----	3
	.114 - .161	21	27	17	----	5
	.162 - .249	21	27	17	----	6
	.250 - .499	21	27	17	----	8
	.500 - 1.000	21	27	17	----	10
5005 / H16	.006 - .031	24	30	20	----	1
	.032 - .050	24	30	20	----	2
	.051 - .162	24	30	20	----	3
5005 / H18	.006 - .031	27	-----	----	----	1
	.032 - .050	27	-----	----	----	2
	.051 - .128	27	-----	----	----	3
5005 / H32	.017 - .019	17	23	12	----	3
	.020 - .031	17	23	12	----	4
	.032 - .050	17	23	12	----	5
	.051 - .113	17	23	12	----	7
	.114 - .161	17	23	12	----	8
	.162 - .249	17	23	12	----	9
	.250 - 2.000	17	23	12	----	10

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Alloy / Temper	Specified Thickness Range	Ultimate		Yield		Elongation Percent Min. in 2 in. or 4D
		Min.	Max.	Min.	Max.	
5005 / H34	.009 - .012	20	26	15	----	2
	.013 - .031	20	26	15	----	3
	.032 - .050	20	26	15	----	4
	.051 - .113	20	26	15	----	5
	.114 - .161	20	26	15	----	6
	.162 - .249	20	26	15	----	7
	.250 - .499	20	26	15	----	8
	.500 - 1.000	20	26	15	----	10
5005 / H36	.006 - .007	23	29	18	----	1
	.008 - .019	23	29	18	----	2
	.020 - .031	23	29	18	----	3
	.032 - .162	23	29	18	----	4
5005 / H38	.006 - .012	26	----	----	----	1
	.013 - .019	26	----	----	----	2
	.020 - .031	26	----	----	----	3
	.032 - .128	26	----	----	----	4
5005 / H39	.006 - .063	28	----	----	----	1
5005 / H112	.250 - .499	17	-----	----	----	8
	.500 - 2.000	15	-----	----	----	12
	2.001 - 3.000	14.5	-----	----	----	18

Recommended Minimum Bend Radii for 90-Degree Cold Forming of Sheet & Plate

Temper	1/64 in.	1/32 in.	1/16 in.	1/8 in.	3/16 in.	1/4 in.	3/8 in.	1/2 in.
O	0	0	0	0	½t	1t	1t	1½t
H12	0	0	0	½t	1t	1t	1½t	2t
H14	0	0	0	1t	1½t	1½t	2t	2½t
H16	½t	1t	1t	1½t	2½t	3t	3½t	4t
H18	1t	1½t	2t	2½t	3½t	4½t	5½t	6½t
H32	0	0	0	½t	1t	1t	1½t	2t
H34	0	0	0	1t	1½t	1½t	2t	2½t
H36	½t	1t	1t	1½t	2½t	3t	3½t	4t
H38	1t	1½t	2t	2½t	3½t	4½t	5½t	6½t

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