

ALLOY: EN 3105

CHEMICAL COMPOSITION											
%	Si	Fe	Cu	Mn	Mg	Cr	Zn	Ti	Others		Al
									Each	Total	
Min.				0.30	0.20						Rest
Max.	0.6	0.7	0.30	0.8	0.8	0.20	0.40	0.10	0.05	0.15	

ALLOY: HA 310515

(normal quality)

MECHANICAL PROPERTIES												
Temper	Specified thickness (mm)		Ultimate tensile strength (R _m) MPa			Yield strength (R _{p0.2}) MPa		Elongation (A ₅₀) %		Bend radius*		Hardness Brinell*
	over	up to	min.	max.	typ.*	min.	typ.*	min.	typ.*	180°	90°	
0	≥0.3	0.5	115	165		45		12		0 t	0 t	33
	0.5	1.5	115	165	140	45	60	14	22	0 t	0 t	33
	1.5	2.5	115	165		45		16		1 t	0.5 t	33
H12	≥0.3	1.5	115	145	125	95	120	4	6	1 t	0.5 t	32
	1.5	2.5	115	145	125	95	120	6	8	1 t	1 t	32
H14	≥0.3	1.5	130	180	150	120	140	2	3	2 t	0.5 t	36
	1.5	3.5	130	180	150	120	140	3	4	2 t	1 t	36
H22	≥0.3	1.50	130	180	155	120	145	7	15	0 t	0 t	38
H24	≥0.3	1.50	150	200	165	145	155	6	12	1 t	0.5 t	40

* For information only

ALLOY: EN 3105 B

CHEMICAL COMPOSITION											
%	Si	Fe	Cu	Mn	Mg	Cr	Zn	Ti	Others		Al
									Each	Total	
Min.				0.30	0.20						Rest
Max.	0.7	0.9	0.30	0.9	0.8	0.20	0.50	0.10	0.05	0.15	

ALLOY: HA 310516 / HA 310517

(normal quality, soft and temper rolled)

MECHANICAL PROPERTIES												
Temper	Specified thickness (mm)		Ultimate tensile strength (R _m) MPa			Yield strength (R _{p0.2}) MPa		Elongation (A ₅₀) %		Bend radius*		Hardness Brinell*
	over	up to	min.	max.	typ.*	min.	typ.*	min.	typ.*	180°	90°	
0 ¹⁾	≥0.3	0.5	100	155	120	40	50	14	24	0 t	0 t	31
	0.5	1.5	100	155	120	40	50	15	24	0 t	0 t	31
	1.5	2.5	100	155	120	40	50	17	24	0.5 t	0 t	31
H12	≥0.3	0.5	130	180	150	105	145	3	6	1.5 t	0 t	41
	0.5	1.5	130	180	150	105	130	4	7	1.5 t	0.5 t	41
	1.5	3	130	180	150	105	130	4	8	1.5 t	0 t	41
H14	≥0.3	0.5	150	200	160	130	145	2	4	2.5 t	0 t	48
	0.5	1.5	150	200	160	130	145	2	5	2.5 t	0.5 t	48
	1.5	3	150	200	160	130	145	2	6	2.5 t	1 t	48
H16	≥0.3	0.5	175	225	200	160	185	1	3		1 t	55
	0.5	1.5	175	225	200	160	180	2	4		1 t	55
	1.5	3	175	225	200	160	175	2	4		1 t	55
H18	≥0.3	0.5	195		220	180	210	1	2			61
	0.5	1.5	195		220	180	200	1	3			61
H19	≥0.3	0.5	215		280	190	250	1	3			64
	0.5	1.5	215		250	190	230	1	4			64

* For information only

1) Can be produced in H60

ALLOY: EN 3105 B

CHEMICAL COMPOSITION											
%	Si	Fe	Cu	Mn	Mg	Cr	Zn	Ti	Others		Al
									Each	Total	
Min.				0.30	0.20						Rest
Max.	0.7	0.9	0.30	0.9	0.8	0.20	0.50	0.10	0.05	0.15	

ALLOY: HA 310516 / HA 310517

(normal quality, temper annealed)

MECHANICAL PROPERTIES												
Temper	Specified thickness (mm)		Ultimate tensile strength (R _m) MPa			Yield strength (R _{p0.2}) MPa		Elongation (A ₅₀) %		Bend radius*		Hardness Brinell*
	over	up to	min.	max.	typ.*	min.	typ.*	min.	typ.*	180°	90°	
H24	≥0.3	1.5	150	200	185	120	170	8	12	0.5 t	0 t	50
H25	≥0.3	1.5	170	210	195	150	180	7	11	0.5 t	0 t	53
H26	≥0.3	1.5	175	225	200	150	190	6	9	1 t	0.5 t	55
H27	≥0.3	1.5	190	240	210	170	200	4	7	1 t	0.5 t	56
H28	≥0.3	1.5	195	240	225	170	215	3	6	2.5 t	1.5 t	60
H29	≥0.3	1.5	220	260	255	200	245	2	4			64
H60 ¹⁾	≥0.3	1.5	100	155	130	40	85	15	24	0 t	0 t	32
H62 ²⁾	≥0.3	0.5	110	165	140	80	135	5	8	0 t	0 t	36
	0.5	1.5	110	165	135	70	130	6	9	0 t	0 t	36
	1.5	3	110	165	130	70	125	7	10	0 t	0 t	36
H66 ³⁾	≥1.5	3.2	175	225	195	150	185	5	8	2 t	1 t	52
H68 ³⁾	≥1.5	2.5	195	240	205	175	195	4	6	2.5 t	1.5 t	55
	2.5	3.2	180	220	195	170	185	5	7	2 t	1 t	53

* For information only

- 1) Soft annealed and tension levelled
- 2) Soft annealed and skin pass
- 3) Back annealed and skin pass