

스트립 (Strip) 베릴륨동의 기계적, 전기적 성질

Alloy No.	템 퍼	열처리	인장강도 (Kg/mm ²)	항복강도 (Kg/mm ²)	연신율 (%) ***	피로강도 10 ⁸ Cycles (Kg/mm ²)	****경 도			전기전도율 (% IACS)
							빅커스	로 크 웰		
								B 또는 C	피상경도	
25 C17200	Dead Soft* A Planished	—	42-54	19-26	35-65	21-25	90-144	B45-78	30T46-67	15-19
		—	42-55	21-39	35-60	21-25	90-144	B45-78	30T46-67	15-19
	1/4H	—	52-62	42-57	20-45	22-25	121-185	B68-90	30T62-75	15-19
	1/2H	—	59-71	52-67	12-30	22-27	176-216	B88-96	30T74-79	15-19
	H	—	70-85	63-81	2-18	25-27	216-287	B96-102	30T79-83	15-19
	AT	3 hr 315 °C	116-138	98-124	3-15	28-32	353-413	C36-42	30N56-62	22-28
	1/4HT	2 hr 315 °C	123-145	105-131	3-10	28-32	353-424	C36-43	30N56-63	22-28
	1/2HT	2 hr 315 °C	130-152	112-138	1-8	30-33	373-435	C38-44	30N58-63	22-28
HT	2 hr 315 °C	133-155	116-145	1-6	32-35	373-446	C38-45	30N58-65	22-28	
190 C17200	AM	M	70-78	49-67	16-30	28-32	210-251	B95-C23	30N37-44	17-28
	1/4HM	M	77-85	56-78	15-25	29-33	230-271	C20-26	30N42-47	17-28
	1/2HM	M	84-95	66-88	12-22	30-34	250-301	C23-30	30N44-51	17-28
	HM	M	94-106	77-95	9-20	32-37	285-343	C28-35	30N48-55	17-28
	SHM	M	105-113	87-99	9-18	33-39	309-363	C31-37	30N52-56	17-28
	XHM	M	108-124	94-120	4-15	35-40	317-378	C32-38	30N52-58	17-28
	XHMS	M	123-134	105-127	3-12	35-42	325-413	C33-42	30N53-62	17-28
290 C17200	TM00**	M	70 min	52-67	19-35	28-32	225-309	B98-C31	30T81-30N52	17-26
	TM02**	M	84 min	66-81	14-30	30-34	255-309	C25-34	30N46-54	17-26
	TM04**	M	98 min	80-95	9-25	31-35	285-369	C28-38	30N48-58	17-26
	TM06**	M	108 min	94-109	6-13	33-40	317-393	C32-40	30N52-60	17-26
	TM08**	M	123 min	108-124	3-15	35-42	345-429	C35-43	30N55-62	17-26
165 C17000	Dead Soft* A Planished	—	42-54	19-26	35-65	20-23	90-144	B45-78	30T46-67	15-19
		—	42-54	21-39	35-60	20-23	90-144	B45-78	30T46-67	15-19
	1/4H	—	52-62	42-57	20-45	20-24	121-185	B68-90	30T62-75	15-19
	1/2H	—	59-71	52-67	12-30	22-27	176-216	B88-96	30T74-79	15-19
	H	—	70-85	63-81	2-10	25-27	216-287	B96-102	30T79-83	15-19
	AT	3 hr 315 °C	105-127	91-117	3-20	26-30	325-373	C33-38	30N53-58	22-28
	1/4HT	2 hr 315 °C	112-134	94-124	3-15	27-31	343-393	C35-40	30N55-59	22-28
	1/2HT	2 hr 315 °C	119-141	105-127	1-10	28-32	363-413	C37-42	30N57-60	22-28
	HT	2 hr 315 °C	126-148	108-127	1-6	30-33	372-435	C38-44	30N58-63	22-28
	AM	M	70-78	49-67	18-30	28-32	225-251	B98-C23	30N37-44	18-33
	1/4HM	M	77-85	56-78	15-25	28-32	230-271	C20-26	30N42-46	18-33
	1/2HM	M	84-95	66-88	12-22	30-34	257-301	C24-30	30N45-51	18-33
	HM	M	94-106	77-95	9-20	32-37	285-343	C28-35	30N48-55	18-33
	SHM	M	105-113	87-99	9-18	33-39	309-363	C31-37	30N52-56	18-33
XHM	M	108-124	94-117	3-10	35-40	371-378	C32-38	30N52-58	18-33	
3 C17510 and 10 C17500	Dead Soft* A Planished	—	24-39	14-22	20-40	14-21	65-125	B20-45	30T28-45	20-30
		—	24-39	17-32	20-40	14-21	65-125	B20-45	30T28-45	20-30
	H	—	49-60	38-57	2-10	18-25	144-176	B78-88	30T69-75	20-30
	AT	M or 2-3 hr at 480 °C	70-92	56-71	10-25	27-31	195-275	B92-100	30T77-82	45-60
	HT		77-95	66-85	8-20	30-33	216-287	B95-102	30T79-83	48-60
	HTR	M	84-106	77-99	1-5	30-34	216-287	B98-103	30T80-84	48-60
HTC	M	52-60	35-53	8-20	21-25	147-176	B79-88	30T69-75	60	
174 C17410	1/2HT	M	60-81	56-70	10-20	28-32	180-230	B89-98	30T75-82	50 min
	HTS	M	73-87	62-79	7 min	28-32	225-265	B9-C25	30T31-30N46	45 min
	HT	M	77-92	70-84	7-17	28-32	210-278	B95-102	30T79-30N48	45-60
60 C17460	3/4HT	M	80-95	66-80	11 min	29-32	230-280	B98-C28	30T81-30N48	50 min
	HT	M	84-98	73-88	10 min	29-32	250-300	C23-30	30T44-50	50 min

주 기 :

* 소둔 스트립재는 Dead Soft 또는 Planished 상태로 공급됨. Dead Soft 재는 최대의 Deep Drawing 성질을 갖으나, 정밀 스템핑에는 Planish재가 선호되고 있음.

** ASTM규격상의 템퍼표기임.

*** 표에 수록된 연신율은 0.1016mm(0.004 in) 이상의 두께를 갖은 스트립재에 적용됨.

**** 빅커스 경도는 로크웰 경도를 환산 표시한 것임.

M-Materion Brush 공장에서 이미 열처리를 시행한 재료라는 뜻임.