

# DOGHER

© TOOLS



595



612



627



599



615



628



601



622



629



610



623



631

**Anti-faísca**  
**Cu-Be 10000**  
**Al-Br 15000**



# Liga de Cobre-Berílio / Alumínio-Bronze



## Cu-Be

### Composição:



Be 1,8% - 2,3%



+



Co+Ni > 0,2%



+



+



Otros < 1,2%



Cu - O resto

Dureza: 283-365 HB

Resistência  
à tração:

1250 N/mm<sup>2</sup>

## Al-Br

### Composição:



Al 10% - 12%



Ni 4% - 6%



+



Fe+Mn < 5,8%

Otros - 0,5%

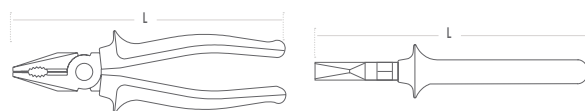


Cu - O resto

Dureza: 221-291 HB

Resistência  
à tração:

800 N/mm<sup>2</sup>

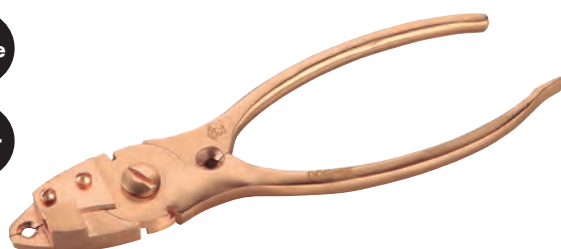


10200  
15200

Alicate Gasista

Cu-Be

Al-Br



Cu-Be

Al-Br

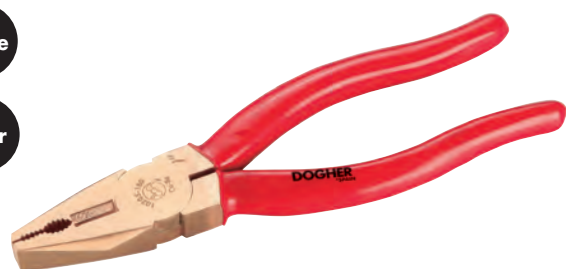
L mm	L"	Part N°	€	Part N°	€
180	7	10200-160	299,90	15200-160	229,29

10205  
15205

Alicate Profissional Universal

Cu-Be

Al-Br



Cu-Be

Al-Br

L mm	L"	Part N°	€	Part N°	€
160	6	10205-160	224,94	15205-160	183,06
180	7	10205-180	243,69	15205-180	187,38
200	8	10205-200	262,42	15205-200	213,36

10212  
15212

Alicate Profissional de Corte Diagonal

Cu-Be

Al-Br



Cu-Be

Al-Br

L mm	L"	Part N°	€	Part N°	€
160	6	10212-160	281,17	15212-160	206,82
200	8	10212-200	293,75	15212-200	224,07

10213  
15213

Alicate Profissional de Corte Diagonal Reforçado

Cu-Be

Al-Br



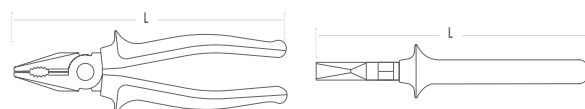
Cu-Be

Al-Br

L mm	L"	Part N°	€	Part N°	€
160	6	10213-160	296,43	15213-160	213,19
180	8	10213-180	312,06	15213-180	224,07

# Cu-Be / Al-Br

Alicates Série Profissional Anti-faísca

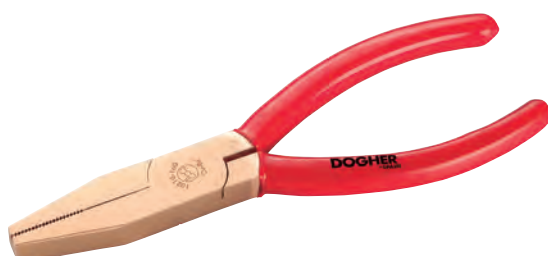


10210  
15210

Alicate Profissional de Pontas Planas

Cu-Be

Al-Br



		Cu-Be		Al-Br	
L mm	L"	Part N°	€	Part N°	€
160	6	10210-160	206,18	15210-160	203,97

10211  
15211

Alicate Profissional de Pontas Redondas

Cu-Be

Al-Br



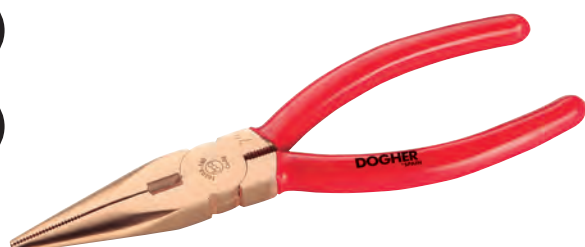
		Cu-Be		Al-Br	
L mm	L"	Part N°	€	Part N°	€
160	6	10211-160	206,18	15211-160	183,57

10208  
15208

Alicate Profissional de Pontas Semirredondas com Corte

Cu-Be

Al-Br



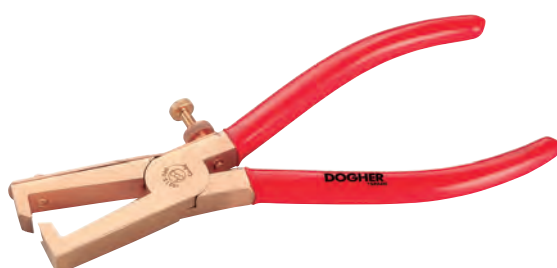
		Cu-Be		Al-Br	
L mm	L"	Part N°	€	Part N°	€
150	6	10208-160	224,94	15208-160	170,25
180	7	10208-180	243,69	15208-180	178,63
200	8	10208-200	262,42	15208-200	199,46

10215  
15215

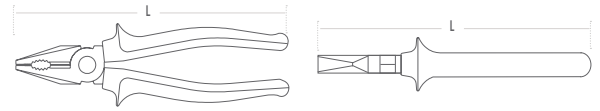
Alicate Profissional para Descarnar

Cu-Be

Al-Br



		Cu-Be		Al-Br	
L mm	L"	Part N°	€	Part N°	€
170	7	10215-160	304,60	15215-160	190,98



10219  
15219

Alicate Gasista

Cu-Be

Al-Br



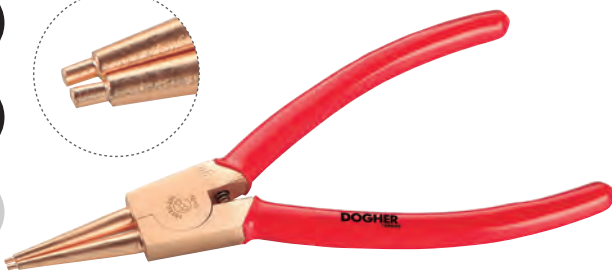
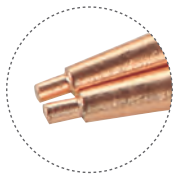
		Cu-Be		Al-Br	
L mm	L"	Part N°	€	Part N°	€
200	8	10219-200	187,45	15219-200	173,18

10220  
15220

Alicate Pontas Retas Freio Exterior

Cu-Be

Al-Br



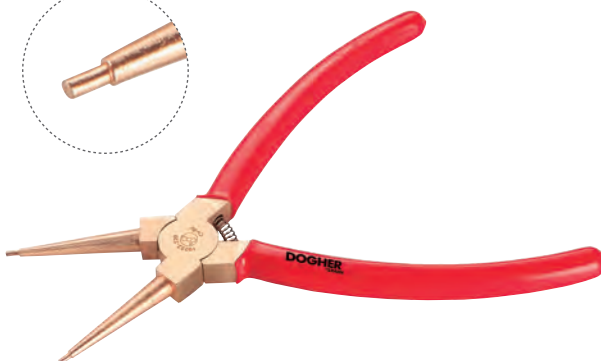
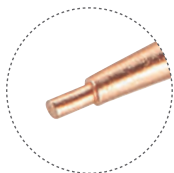
		Cu-Be		Al-Br	
L mm	L"	Part N°	€	Part N°	€
200	8	10220-220	318,66	15220-220	276,43

10222  
15222

Alicate Pontas Retas Freio Interior

Cu-Be

Al-Br



		Cu-Be		Al-Br	
L mm	L"	Part N°	€	Part N°	€
200	8	10222-220	318,66	15222-220	276,61

## Cu-Be / Al-Br

Alicates e Turquesas Anti-faixa

**DOGHER**  
TOOLS

10266  
15266

Alicate Ajustável de Abertura Múltipla

Cu-Be

Al-Br



		Cu-Be			Al-Br	
L mm	L"	Ø mm	Part N°	€	Part N°	€
250	10	45	10266-250	385,26	15266-250	237,03
300	12	55	10266-300	466,34	15266-300	287,03

10270  
15270

Turquês Profissional Alta Potência

Cu-Be

Al-Br



		Cu-Be			Al-Br	
L mm	L"	Ø mm	Part N°	€	Part N°	€
200	8	13	10270-200	246,74	15270-200	215,04

10273  
15273

Turquês de Carpinteiro Profissional

Cu-Be

Al-Br



		Cu-Be			Al-Br	
L mm	L"	Part N°	€	Part N°	€	
175	7	10273-180	528,61	15273-180	354,57	
200	8	10273-200	533,45	15273-200	354,57	

Prof

# Cu-Be / Al-Br

## Chaves de Parafusos Série Profissional Anti-faísca



- As chaves da Série Profissional da Dogher, estão compostas por:
- Punho Bimaterial; elastômero anti-derrapante no 70% do corpo.
  - Vareta Cu-Be/Al-Br: Uso profissional.



10330 15330

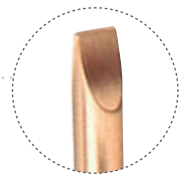
Ponta Fenda Plana



Cu-Be Al-Br

10331 15331

Ponta Fenda Retá



Cu-Be Al-Br

A mm	L mm	L "	Part N°	€	Part N°	
3	50	2	10330-030-050	28,12	15330-030-050	24,17
3	75	3	10330-030-075	31,87	15330-030-075	27,33
4	75	3	10330-040-075	35,61	15330-040-075	27,92
4,5	50	2	10330-045-050	31,87	15330-045-050	26,69
4,5	100	4	10330-045-100	41,37	15330-045-100	31,81
5	75	3	10330-050-075	37,49	15330-050-075	29,20
5	100	4	10330-050-100	41,25	15330-050-100	31,85
6	100	4	10330-060-100	44,99	15330-060-100	36,43
6	125	5	10330-060-125	44,99	15330-060-125	37,67
6	150	6	10330-060-150	55,23	15330-060-150	39,30
7	150	6	10330-070-150	55,14	15330-070-150	39,30
8	150	6	10330-080-150	63,74	15330-080-150	45,84
8	200	8	10330-080-200	87,76	15330-080-200	62,22
9	250	10	10330-090-250	103,33	15330-090-250	73,68
10	200	8	10330-100-200	105,94	15330-100-200	88,63
10	300	12	10330-100-300	131,22	15330-100-300	115,57
11	250	10	10330-110-250	139,11	15330-110-250	105,95
11	300	12	10330-110-300	149,96	15330-110-300	125,20
11	350	14	10330-110-350	174,18	15330-110-350	144,48
12	400	16	10330-120-400	196,29	15330-120-400	152,18
13	450	18	10330-130-450	205,79	15330-130-450	163,74

A mm	L mm	L "	Part N°	€	Part N°	
3	50	2	10331-030-050	37,49	15331-030-050	36,87
4	100	4	10331-040-100	46,86	15331-040-100	45,99
4	150	6	10331-040-150	80,99	15331-040-150	60,57
5	100	4	10331-050-100	84,13	15331-050-100	56,63
5	200	8	10331-050-200	93,73	15331-050-200	81,13
6	100	4	10331-060-100	93,73	15331-060-100	60,87
8	150	6	10331-080-150	110,11	15331-080-150	82,43
10	200	8	10331-100-200	131,22	15331-100-200	103,09
10	300	4	10331-100-300	163,98	15331-100-300	122,52

# Cu-Be / Al-Br

Chaves de Parafusos Série Professional Anti-faisca



10334  
15334

Ponta Phillips

10337  
15337

Ponta Pozidriv



Cu-Be

Al-Br



Cu-Be

Al-Br



	Cu-Be			Al-Br		
	L mm	L "	Part N°	€	Part N°	€
PH0	50	2	10334-PH0-050	41,25	15334-PH0-050	34,44
PH1	100	4	10334-PH1-100	41,25	15334-PH1-100	37,92
PH2	125	5	10334-PH2-125	44,99	15334-PH2-125	39,10
PH3	150	6	10334-PH3-150	65,60	15334-PH3-150	57,10
PH4	300	12	10334-PH4-300	103,11	15334-PH4-300	84,36

	Cu-Be			Al-Br		
	L mm	L "	Part N°	€	Part N°	€
PZ0	50	2	10337-PZ0-050	41,25	15337-PZ0-050	33,06
PZ1	100	4	10337-PZ1-100	41,25	15337-PZ1-100	35,71
PZ2	125	4	10337-PZ2-125	44,99	15337-PZ2-125	38,69
PZ3	150	6	10337-PZ3-150	65,60	15337-PZ3-150	57,10
PZ4	150	6	10337-PZ4-300	103,11	15337-PZ4-300	84,36

10330  
15330

Estojo de Plástico

5

Pcs



Cu-Be

Al-Br



Plana

5 • 6 • 8

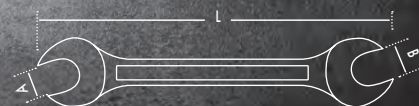
PH1 • PH2



Part N°	€	Part N°	€
10330-005	236,22	15330-005	192,38

# Cu-Be / Al-Br

## Chaves de Dupla Boca Aberta Anti-faísca

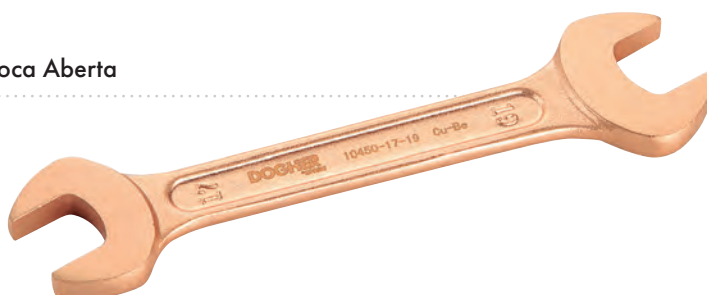


10450  
15450

Chave de Dupla Boca Aberta

Cu-Be

Al-Br



Cu-Be		Al-Br		Cu-Be		Al-Br		
A mm	B mm	L mm	Part N°	€	Part N°	€	Part N°	€
6	7	92	10450-06-07	33,74	15450-06-07	22,59	22	27
6	8	92	10450-06-08	33,74	15450-06-08	21,58	23	26
7	8	96	10450-07-08	35,61	15450-07-08	23,38	24	25
7	9	96	10450-07-09	35,61	15450-07-09	24,41	24	26
8	9	100	10450-08-09	37,49	15450-08-09	24,02	24	27
8	10	100	10450-08-10	39,37	15450-08-10	25,44	24	30
9	10	110	10450-09-10	41,25	15450-09-10	25,86	25	28
9	11	110	10450-09-11	43,11	15450-09-11	31,09	26	29
10	11	115	10450-10-11	44,99	15450-10-11	29,31	27	29
10	12	120	10450-10-12	48,72	15450-10-12	31,45	27	30
10	13	124	10450-10-13	52,49	15450-10-13	31,98	27	32
10	14	124	10450-10-14	52,49	15450-10-14	32,24	28	30
11	13	128	10450-11-13	56,24	15450-11-13	36,70	30	31
11	14	130	10450-11-14	56,24	15450-11-14	37,32	30	32
12	13	128	10450-12-13	59,99	15450-12-13	37,91	30	34
12	14	130	10450-12-14	59,99	15450-12-14	38,22	30	36
13	15	133	10450-13-15	63,74	15450-13-15	41,95	32	34
14	15	143	10450-14-15	67,48	15450-14-15	42,64	32	35
14	16	150	10450-14-16	70,41	15450-14-16	49,81	32	36
14	17	150	10450-14-17	74,98	15450-14-17	51,05	33	35
16	17	157	10450-16-17	78,73	15450-16-17	50,71	34	36
16	18	163	10450-16-18	82,48	15450-16-18	50,73	35	36
17	19	170	10450-17-19	86,23	15450-17-19	58,98	36	38
17	22	173	10450-17-22	97,48	15450-17-22	65,55	36	41
18	19	179	10450-18-19	101,22	15450-18-19	66,64	36	42
18	20	175	10450-18-20	104,97	15450-18-20	67,19	41	46
19	20	182	10450-19-20	108,72	15450-19-20	68,27	46	50
19	22	185	10450-19-22	112,47	15450-19-22	69,37	50	52
19	24	190	10450-19-24	116,23	15450-19-24	69,93	50	55
20	22	195	10450-20-22	116,23	15450-20-22	73,29	50	60
21	22	200	10450-21-22	121,84	15450-21-22	73,90	50	62
21	23	200	10450-21-23	121,84	15450-21-23	74,48	55	60
22	23	210	10450-22-23	125,61	15450-22-23	85,09	60	65
22	24	210	10450-22-24	125,61	15450-22-24	85,79	65	70
							225	227
							10450-22-27	140,59
							15450-22-27	90,61
							10450-23-26	144,34
							15450-23-26	97,37
							10450-24-25	149,96
							15450-24-25	97,51
							10450-24-26	153,68
							15450-24-26	100,59
							10450-24-27	157,46
							15450-24-27	110,06
							10450-24-30	166,82
							15450-24-30	118,84
							10450-25-28	179,78
							15450-25-28	127,93
							10450-26-29	178,85
							15450-26-29	126,87
							10450-27-29	183,59
							15450-27-29	126,87
							10450-27-30	183,59
							15450-27-30	126,87
							10450-27-32	201,09
							15450-27-32	142,11
							10450-28-30	189,08
							15450-28-30	136,12
							10450-30-31	206,18
							15450-30-31	140,98
							10450-30-32	244,06
							15450-30-32	147,18
							10450-30-34	233,09
							15450-30-34	156,31
							10450-30-36	233,09
							15450-30-36	156,06
							10450-32-34	277,42
							15450-32-34	165,99
							10450-32-35	277,42
							15450-32-35	170,51
							10450-32-36	277,42
							15450-32-36	172,70
							10450-33-35	299,90
							15450-33-35	176,96
							10450-34-36	299,90
							15450-34-36	181,48
							10450-35-36	309,28
							15450-35-36	189,04
							10450-36-38	309,28
							15450-36-38	216,36
							10450-36-41	328,03
							15450-36-41	228,39
							10450-36-42	346,77
							15450-36-42	240,40
							10450-41-46	412,38
							15450-41-46	268,99
							10450-46-50	506,12
							15450-46-50	418,52
							10450-50-52	562,35
							15450-50-52	424,96
							10450-50-55	618,57
							15450-50-55	431,37
							10450-50-60	697,83
							15450-50-60	437,83
							10450-50-62	694,29
							15450-50-62	444,27
							10450-55-60	824,77
							15450-55-60	566,59
							10450-60-65	896,70
							15450-60-65	592,36
							10450-65-70	955,47
							15450-65-70	630,99

# Cu-Be / Al-Br

Jogos de Chaves de Dupla Boca Aberta Anti-faísca



10450  
15450

Saco de Nylon

8

Pcs

Cu-Be

Al-Br



390 x 300 mm



- 6x7
- 8x9
- 10x11
- 12x13
- 14x15
- 16x17
- 18x19
- 20x22

**Cu-Be**

**Al-Br**

Part N°	€	Part N°	€
10450-001	539,87	15450-001	347,12

10450  
15450

Saco de Nylon

12

Pcs

Cu-Be

Al-Br



620 x 350 mm



- 6x7
- 8x9
- 10x11
- 12x13
- 14x15
- 16x17
- 18x19
- 20x22
- 21x23
- 24x27
- 25x28
- 30x32

**Cu-Be**

**Al-Br**

Part N°	€	Part N°	€
10450-002	1.243,01	15450-002	806,77

10450  
15450

Suporte de Plástico

**6**

Pcs

Cu-Be

Al-Br



• 6x7 • 8x9 • 10x11 • 12x13 • 14x15 • 16x17

Cu-Be		Al-Br	
Part N°	€	Part N°	€
10450-016	322,42	15450-016	207,20

**8**

Pcs

Cu-Be

Al-Br



• 6x7 • 8x9 • 10x11 • 12x13 • 14x15 • 16x17  
• 18x19 • 20x22

Cu-Be		Al-Br	
Part N°	€	Part N°	€
10450-018	539,87	15450-018	347,12

10450  
15450

Suporte de Plástico

**10**

Pcs

Cu-Be

Al-Br



• 6x7 • 8x9 • 10x11 • 12x13 • 14x15 • 16x17  
• 18x19 • 20x22 • 21x23 • 24x27

Cu-Be		Al-Br	
Part N°	€	Part N°	€
10450-020	819,17	15450-020	531,66

**12**

Pcs

Cu-Be

Al-Br



• 6x7 • 8x9 • 10x11 • 12x13 • 14x15 • 16x17  
• 18x19 • 20x22 • 21x23 • 24x27 • 25x28 • 30x32

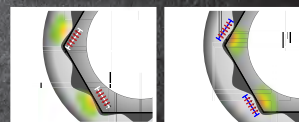
Cu-Be		Al-Br	
Part N°	€	Part N°	€
10450-022	1.243,01	15450-022	806,77

# Cu-Be / Al-Br

## Chaves de Boca / Luneta Anti-faixa

- Distribuição ótima das cargas
- Fixação rápida
- Máximo rendimento sem desgaste
- Diminuição dos danos em porcas e parafusos
- Maior vida útil da chave
- Máxima superfície de contato
- Distribuição homogênea do esforço

Efeito do esforço:



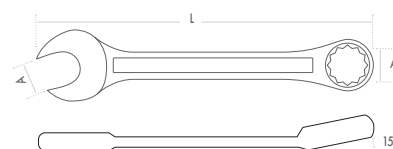
- Sobre a chave
- Sobre a porca

10451  
15451

Chave de Boca / Luneta

Cu-Be

Al-Br



Cu-Be		Al-Br			
A mm	L mm	Part N°	€	Part N°	€
6	105	10451-06	47,58	15451-06	30,70
7	120	10451-07	51,40	15451-07	33,14
8	120	10451-08	55,81	15451-08	36,83
9	135	10451-09	60,92	15451-09	39,27
10	135	10451-10	64,53	15451-10	46,66
11	150	10451-11	69,75	15451-11	54,60
12	150	10451-12	76,74	15451-12	57,43
13	175	10451-13	80,21	15451-13	60,62
14	175	10451-14	83,72	15451-14	63,78
15	195	10451-15	95,92	15451-15	68,67
16	195	10451-16	99,40	15451-16	78,17
17	195	10451-17	113,37	15451-17	89,33
18	215	10451-18	118,60	15451-18	90,94
19	215	10451-19	122,09	15451-19	92,52
20	215	10451-20	125,56	15451-20	95,71
21	245	10451-21	136,03	15451-21	98,90
22	245	10451-22	139,53	15451-22	106,85
23	265	10451-23	146,50	15451-23	110,07
24	265	10451-24	165,68	15451-24	118,05
25	265	10451-25	174,39	15451-25	126,85
26	290	10451-26	183,12	15451-26	132,57
27	290	10451-27	191,84	15451-27	135,90

Cu-Be		Al-Br			
A mm	L mm	Part N°	€	Part N°	€
28	290	10451-28	226,73	15451-28	162,05
29	320	10451-29	235,44	15451-29	170,34
30	320	10451-30	244,16	15451-30	166,75
31	340	10451-31	279,05	15451-31	193,78
32	340	10451-32	287,76	15451-32	202,20
33	340	10451-33	330,32	15451-33	197,90
34	360	10451-34	332,80	15451-34	208,95
35	360	10451-35	336,73	15451-35	210,64
36	360	10451-36	345,99	15451-36	227,47
38	430	10451-38	359,87	15451-38	244,34
40	430	10451-40	383,69	15451-40	267,93
41	430	10451-41	427,30	15451-41	288,15
42	430	10451-42	505,76	15451-42	306,66
46	480	10451-46	523,22	15451-46	325,48
50	520	10451-50	575,53	15451-50	370,69
52	520	10451-52	666,02	15451-52	400,18
55	560	10451-55	645,29	15451-55	446,03
60	595	10451-60	715,07	15451-60	483,21
65	595	10451-65	971,31	15451-65	556,76
70	630	10451-70	1.094,84	15451-70	602,20
75	630	10451-75	1.227,82	15451-75	656,47
80	660	10451-80	1.455,39	15451-80	765,90

10451  
15451

Saco de Nylon

**14**

Pcs

Cu-Be

Al-Br



650 x 440 mm



Cu-Be		Al-Br	
Part N°	€	Part N°	€
10451-002	1.756,11	15451-002	1.270,78

**17**

Pcs

Cu-Be

Al-Br



470 x 450 mm



Cu-Be		Al-Br	
Part N°	€	Part N°	€
10451-003	1.541,17	15451-003	1.144,13

10451  
15451

Saco de Nylon

**24**

Pcs

Cu-Be

Al-Br



650 x 580 mm



Cu-Be		Al-Br	
Part N°	€	Part N°	€
10451-005	3.186,45	15451-005	2.289,12

**26**

Pcs

Cu-Be

Al-Br



650 x 500 mm



Cu-Be		Al-Br	
Part N°	€	Part N°	€
10451-006	3.396,79	15451-006	2.468,90

# Cu-Be / Al-Br

Jogos de Chaves de Boca / Luneta Anti-faísca



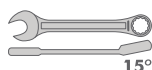
10451  
15451

Suporte de Plástico

**8**

Pcs

CrV

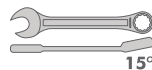


8 • 10 • 11 • 12 • 13 • 14 • 17 • 19

**12**

Pcs

CrV



8 • 9 • 10 • 11 • 12 • 13  
14 • 15 • 16 • 17 • 18 • 19

Cu-Be		Al-Br	
Part N°	€	Part N°	€
10451-018	666,22	15451-018	501,76

Cu-Be		Al-Br	
Part N°	€	Part N°	€
10451-022	1.041,06	15451-022	778,82

10454  
15454

Chave de Lunetas

Cu-Be

Al-Br



Cu-Be

Al-Br

mm		L mm	Part N°	€	Part N°	
6	7	95	10454-06-07	63,22	15454-06-07	45,81
7	9	115	10454-07-09	64,69	15454-07-09	46,73
8	9	115	10454-08-09	58,04	15454-08-09	48,59
9	11	125	10454-09-11	61,30	15454-09-11	51,42
10	11	140	10454-10-11	67,30	15454-10-11	52,45
10	12	140	10454-10-12	75,23	15454-10-12	54,48
12	14	145	10454-12-14	82,97	15454-12-14	56,55
13	15	155	10454-13-15	99,42	15454-13-15	67,18
14	17	165	10454-14-17	101,48	15454-14-17	68,50
16	18	170	10454-16-18	132,92	15454-16-18	89,31
17	19	185	10454-17-19	146,33	15454-17-19	98,31
17	22	200	10454-17-22	157,86	15454-17-22	108,15
18	19	185	10454-18-19	162,34	15454-18-19	108,80
19	21	200	10454-19-21	162,99	15454-19-21	121,92
19	22	200	10454-19-22	165,26	15454-19-22	124,82
20	22	200	10454-20-22	166,30	15454-20-22	127,78
21	23	220	10454-21-23	178,91	15454-21-23	137,81
22	24	220	10454-22-24	214,67	15454-22-24	153,17
24	27	255	10454-24-27	230,57	15454-24-27	177,07
25	28	265	10454-25-28	256,42	15454-25-28	197,95
26	28	265	10454-26-28	277,33	15454-26-28	205,85
27	30	280	10454-27-30	292,33	15454-27-30	210,05
27	32	295	10454-27-32	302,33	15454-27-32	231,71
30	32	295	10454-30-32	339,96	15454-30-32	245,97
30	36	330	10454-30-36	426,01	15454-30-36	307,46
32	36	330	10454-32-36	511,58	15454-32-36	368,95
36	41	365	10454-36-41	737,36	15454-36-41	532,71
41	46	405	10454-41-46	711,60	15454-41-46	631,58
46	50	425	10454-46-50	786,23	15454-46-50	718,99

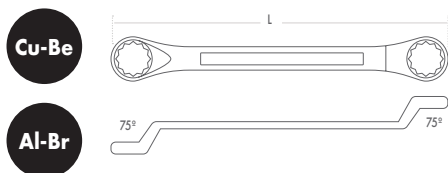
# Cu-Be / Al-Br

Chaves de Lunetas 75° Anti-faisca



10453  
15453

Chave de Lunetas 75°



Cu-Be

Al-Br

mm	mm	L mm	Part N°	€	Part N°	€
6	7	180	10453-06-07	39,37	15453-06-07	30,00
8	9	190	10453-08-09	44,99	15453-08-09	35,52
10	11	215	10453-10-11	54,37	15453-10-11	40,53
12	13	225	10453-12-13	78,73	15453-12-13	62,77
14	15	255	10453-14-15	97,48	15453-14-15	73,22
14	17	255	10453-14-17	104,97	15453-14-17	78,50
16	17	280	10453-16-17	112,47	15453-16-17	82,06
16	18	280	10453-16-18	116,23	15453-16-18	90,33
18	19	280	10453-18-19	142,46	15453-18-19	88,68
20	22	320	10453-20-22	172,44	15453-20-22	101,59
21	23	320	10453-21-23	179,94	15453-21-23	106,03
22	24	330	10453-22-24	191,20	15453-22-24	122,84
24	26	340	10453-24-26	209,93	15453-24-26	131,07
24	27	340	10453-24-27	213,69	15453-24-27	124,75
25	28	350	10453-25-28	224,94	15453-25-28	131,07
27	29	350	10453-27-29	241,80	15453-27-29	144,31
30	32	370	10453-30-32	299,90	15453-30-32	176,69
34	36	430	10453-34-36	384,26	15453-34-36	224,90
36	41	470	10453-36-41	449,87	15453-36-41	263,30
41	46	500	10453-41-46	637,34	15453-41-46	373,02
46	50	525	10453-46-50	749,80	15453-46-50	438,84

10453  
15453

Saco de Nylon

**6**

Pcs

Cu-Be

Al-Br



350 x 330 mm



• 6x7 • 8x9 • 10x11 • 12x13 • 14x15 • 16x17

Cu-Be

Al-Br

Part N°	€	Part N°	€
10453-001	427,40	15453-001	324,10

10453  
15453

Saco de Nylon

**8**

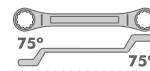
Pcs

Cu-Be

Al-Br



390 x 380 mm



• 6x7 • 8x9 • 10x11 • 12x13 • 14x15  
• 16x17 • 18x19 • 20x22

Cu-Be

Al-Br

Part N°	€	Part N°	€
10453-002	742,30	15453-002	514,36

10453  
15453

Saco de Nylon

**12**

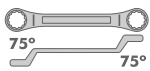
Pcs

Cu-Be

Al-Br



620 x 480 mm



• 6x7 • 8x9 • 10x11 • 12x13 • 14x15 • 16x17  
• 18x19 • 20x22 • 21x23 • 24x27 • 25x28 • 30x32

Cu-Be

Al-Br

Part N°	€	Part N°	€
10453-003	1.660,77	15453-003	1.052,91

10453  
15453

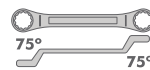
Suporte de Plástico

**6**

Pcs

Cu-Be

Al-Br



• 8x9 • 10x11 • 12x13 • 14x15 • 16x17 • 18x19

Cu-Be

Al-Br

Part N°	€	Part N°	€
10453-016	530,49	15453-016	382,77

# Cu-Be / Al-Br

Chaves de Cachimbo, Ajustáveis e Articuladas Anti-faísca

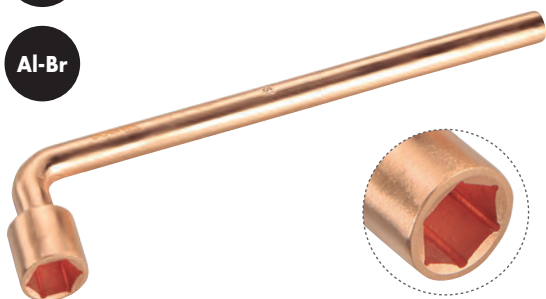


10462  
15462

Chave de Cachimbo

Cu-Be

Al-Br



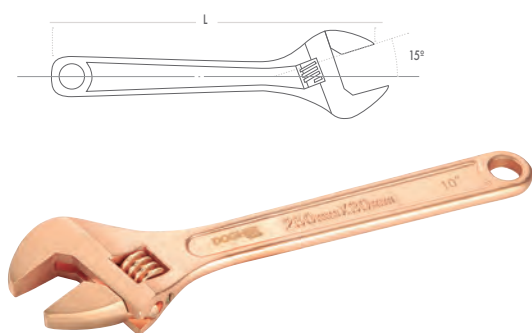
mm	L mm	L2 mm	Cu-Be		Al-Br	
			Part N°	€	Part N°	€
13	240	45	10462-13	131,22	15462-13	93,25
17	245	45	10462-17	187,45	15462-17	133,22
19	250	48	10462-19	196,81	15462-19	139,87
22	278	59	10462-22	262,42	15462-22	186,50
24	286	63	10462-24	281,17	15462-24	192,79
27	294	69	10462-27	299,90	15462-27	213,14
30	302	75	10462-30	337,39	15462-30	239,80
32	310	81	10462-32	374,91	15462-32	266,45
36	330	85	10462-36	431,12	15462-36	306,39
41	350	90	10462-41	524,85	15462-41	373,02

10493  
15493

Chave Ajustável Profissional Moleta Central

Cu-Be

Al-Br



L mm	L "	mm	Cu-Be		Al-Br	
			Part N°	€	Part N°	€
150	6	18	10493-150	232,81	15493-150	156,57
200	8	24	10493-200	247,43	15493-200	153,02
250	10	30	10493-250	329,91	15493-250	216,18
300	12	36	10493-300	366,53	15493-300	275,33
375	15	46	10493-375	560,27	15493-375	433,04
450	18	55	10493-450	761,01	15493-450	613,77
600	24	65	10493-600	1.405,07	15493-600	1.052,27
900	36	70	10493-900	3.122,42	15493-900	2.160,20

10471  
15471

Chave Articulada de Pivô Fixo

Cu-Be

Al-Br



mm	L mm	Cu-Be		Al-Br	
		Part N°	€	Part N°	€
32~75	205	10471-32-75	243,90	15471-32-75	180,67
50~120	288	10471-50-120	382,65	15471-50-120	283,45
115~170	310	10471-115-170	597,63	15471-115-170	476,03

10484  
15484

Chave de Luneta Grande Esforço

Cu-Be

Al-Br



mm	L mm	Cu-Be		Al-Br	
		Part N°	€	Part N°	€
24	180	10484-24	462,19	15484-24	316,32
27	190	10484-27	462,19	15484-27	316,32
30	200	10484-30	462,19	15484-30	316,32
32	235	10484-32	462,19	15484-32	316,32
36	245	10484-36	491,07	15484-36	336,08
41	265	10484-41	502,86	15484-41	336,06
46	280	10484-46	555,39	15484-46	371,16
50	290	10484-50	674,92	15484-50	451,02
55	300	10484-55	795,14	15484-55	544,17

10484  
15484

Extensão para Chave de Luneta Grande Esforço

Cu-Be

Al-Br



L mm	Cu-Be		Al-Br	
	Part N°	€	Part N°	€
460	10484-001	339,94	15484-001	232,65
610	10484-002	447,47	15484-002	306,24
760	10484-003	548,91	15484-003	375,66

# Cu-Be / Al-Br

Chaves de Pancada Anti-faísca



10478  
15478

Chave de Boca Aberta de Pancada

Cu-Be

Al-Br

DIN133



		Cu-Be		Al-Br	
A mm	L mm	Part N°	€	Part N°	€
17	125	10478-17	129,77	15478-17	88,74
19	125	10478-19	134,53	15478-19	92,28
22	135	10478-22	140,00	15478-22	95,84
24	150	10478-24	150,09	15478-24	102,93
25	150	10478-25	168,86	15478-25	115,37
27	175	10478-27	170,51	15478-27	116,46
28	175	10478-28	171,93	15478-28	117,57
29	190	10478-29	178,07	15478-29	141,97
30	190	10478-30	206,18	15478-30	143,33
32	190	10478-32	206,18	15478-32	150,86
33	200	10478-33	206,18	15478-33	159,73
34	200	10478-34	206,18	15478-34	161,25
35	210	10478-35	246,89	15478-35	168,61
36	200	10478-36	249,08	15478-36	170,22
37	220	10478-37	272,18	15478-37	181,96
38	220	10478-38	271,79	15478-38	185,90
41	230	10478-41	298,83	15478-41	204,11
42	230	10478-42	350,40	15478-42	239,19
45	250	10478-45	377,37	15478-45	257,34
46	250	10478-46	380,67	15478-46	259,80
47	250	10478-47	408,99	15478-47	279,54
50	275	10478-50	441,39	15478-50	301,72
52	275	10478-52	459,24	15478-52	331,88
54	305	10478-54	459,24	15478-54	346,10

		Cu-Be		Al-Br	
A mm	L mm	Part N°	€	Part N°	€
55	305	10478-55	506,39	15478-55	346,10
56	305	10478-56	524,85	15478-56	362,57
58	315	10478-58	524,85	15478-58	429,69
60	315	10478-60	642,62	15478-60	433,79
63	335	10478-63	674,82	15478-63	465,71
65	335	10478-65	701,49	15478-65	479,19
67	335	10478-67	749,80	15478-67	570,45
70	370	10478-70	922,54	15478-70	630,06
71	370	10478-71	967,62	15478-71	660,04
75	375	10478-75	993,47	15478-75	709,49
77	375	10478-77	1.124,70	15478-77	792,09
80	400	10478-80	1.124,70	15478-80	836,67
82	400	10478-82	1.126,43	15478-82	917,46
85	400	10478-85	1.134,06	15478-85	953,31
88	445	10478-88	1.312,13	15478-88	1.080,05
90	445	10478-90	1.349,64	15478-90	1.143,33
94	445	10478-94	1.499,60	15478-94	1.179,03
95	445	10478-95	1.536,95	15478-95	1.208,51
100	485	10478-100	2.061,84	15478-100	1.425,13
105	485	10478-105	2.436,73	15478-105	1.733,74
110	513	10478-110	2.624,25	15478-110	1.806,36
115	513	10478-115	2.811,74	15478-115	2.164,49
120	530	10478-120	2.999,10	15478-120	2.315,17

10452  
15452

Chave de Luneta de Pancada

Cu-Be

Al-Br

DIN133



		Cu-Be		Al-Br				Cu-Be		Al-Br	
mm	L mm	Part N°	€	Part N°	€	mm	L mm	Part N°	€	Part N°	€
17	145	10452-17	130,81	15452-17	92,16	60	274	10452-60	582,57	15452-60	380,63
19	145	10452-19	140,13	15452-19	98,46	61	274	10452-61	603,09	15452-61	404,71
20	155	10452-20	143,78	15452-20	99,35	62	274	10452-62	617,09	15452-62	412,88
22	155	10452-22	147,42	15452-22	100,23	63	298	10452-63	636,59	15452-63	425,81
24	165	10452-24	151,05	15452-24	101,98	64	298	10452-64	655,56	15452-64	438,69
25	165	10452-25	171,72	15452-25	119,05	65	298	10452-65	656,76	15452-65	416,32
26	175	10452-26	171,91	15452-26	119,09	66	298	10452-66	663,36	15452-66	444,50
27	175	10452-27	171,91	15452-27	119,09	67	320	10452-67	674,71	15452-67	451,62
28	175	10452-28	179,75	15452-28	124,96	68	320	10452-68	812,85	15452-68	545,25
29	185	10452-29	184,25	15452-29	127,74	69	320	10452-69	814,93	15452-69	545,25
30	185	10452-30	191,25	15452-30	132,70	70	320	10452-70	816,28	15452-70	525,30
31	185	10452-31	197,91	15452-31	136,92	71	320	10452-71	819,97	15452-71	549,16
32	185	10452-32	200,49	15452-32	139,19	72	320	10452-72	827,03	15452-72	553,04
33	200	10452-33	218,38	15452-33	152,72	73	326	10452-73	833,48	15452-73	577,30
34	200	10452-34	227,49	15452-34	152,00	74	326	10452-74	837,95	15452-74	581,34
35	205	10452-35	238,85	15452-35	159,86	75	326	10452-75	842,83	15452-75	585,37
36	205	10452-36	242,49	15452-36	158,61	76	326	10452-76	884,58	15452-76	614,06
37	215	10452-37	265,84	15452-37	185,21	77	326	10452-77	894,93	15452-77	621,73
38	215	10452-38	287,85	15452-38	188,32	78	350	10452-78	921,73	15452-78	639,87
39	215	10452-39	336,17	15452-39	233,36	79	350	10452-79	948,34	15452-79	658,04
40	225	10452-40	354,90	15452-40	237,74	80	350	10452-80	973,34	15452-80	676,19
41	225	10452-41	361,72	15452-41	235,83	81	350	10452-81	1.028,96	15452-81	714,05
42	225	10452-42	392,95	15452-42	256,46	82	350	10452-82	1.042,48	15452-82	722,47
43	225	10452-43	403,28	15452-43	269,74	83	355	10452-83	1.054,37	15452-83	730,88
44	235	10452-44	405,02	15452-44	262,87	84	355	10452-84	1.067,35	15452-84	739,31
45	235	10452-45	405,81	15452-45	267,45	85	355	10452-85	1.079,04	15452-85	747,75
46	235	10452-46	409,63	15452-46	267,62	86	355	10452-86	1.182,93	15452-86	808,82
47	235	10452-47	443,47	15452-47	296,95	87	355	10452-87	1.201,13	15452-87	846,56
48	250	10452-48	451,04	15452-48	298,43	88	380	10452-88	1.247,77	15452-88	844,46
49	250	10452-49	458,75	15452-49	307,30	89	380	10452-89	1.273,79	15452-89	883,07
50	250	10452-50	467,63	15452-50	304,83	90	380	10452-90	1.292,12	15452-90	832,00
51	250	10452-51	479,27	15452-51	320,22	92	380	10452-92	1.328,50	15452-92	925,54
52	250	10452-52	490,09	15452-52	328,09	94	390	10452-94	1.346,71	15452-94	959,67
53	265	10452-53	494,75	15452-53	330,72	95	390	10452-95	1.397,92	15452-95	971,54
54	265	10452-54	498,19	15452-54	333,34	98	410	10452-98	1.546,89	15452-98	1.116,87
55	265	10452-55	501,96	15452-55	327,77	100	410	10452-100	1.601,41	15452-100	1.138,63
56	265	10452-56	546,44	15452-56	365,76	105	420	10452-105	1.637,85	15452-105	1.163,72
57	265	10452-57	556,09	15452-57	371,86	110	445	10452-110	2.040,74	15452-110	1.362,33
58	274	10452-58	563,54	15452-58	377,95	115	450	10452-115	2.547,69	15452-115	1.514,45
59	274	10452-59	573,64	15452-59	384,05	120	480	10452-120	2.621,65	15452-120	1.747,46

# Cu-Be / Al-Br

Chaves de Pancada Anti-faísca



10452  
15452

Chave de Luneta de Pancada

Cu-Be

Al-Br

DIN7444

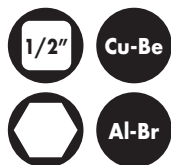


SAE		Cu-Be		Al-Br	
⊙"	L mm	Part N°	€	Part N°	€
5/8	145	10452-5/8	138,89	15452-5/8	92,97
11/16	145	10452-11/16	154,70	15452-11/16	104,12
3/4	145	10452-3/4	163,78	15452-3/4	109,70
25/32	145	10452-25/32	130,72	15452-25/32	105,15
13/16	155	10452-13/16	148,78	15452-13/16	112,99
7/8	155	10452-7/8	172,88	15452-7/8	116,60
15/16	165	10452-15/16	180,74	15452-15/16	118,57
1	175	10452-1	181,98	15452-1	120,50
1.1/16	175	10452-1.1/16	181,98	15452-1.1/16	124,39
1.1/8	185	10452-1.1/8	191,08	15452-1.1/8	128,30
1.3/16	185	10452-1.3/16	200,18	15452-1.3/16	132,00
1.1/4	185	10452-1.1/4	200,18	15452-1.1/4	145,77
1.5/16	200	10452-1.5/16	224,11	15452-1.5/16	149,67
1.3/8	200	10452-1.3/8	230,89	15452-1.3/8	153,55
1.13/32	205	10452-1.13/32	291,18	15452-1.13/32	187,10
1.7/16	205	10452-1.7/16	291,18	15452-1.7/16	198,11
1.1/2	215	10452-1.1/2	309,37	15452-1.1/2	201,04
1.9/16	225	10452-1.9/16	324,61	15452-1.9/16	209,13
1.5/8	225	10452-1.5/8	346,32	15452-1.5/8	223,38
1.11/16	225	10452-1.11/16	391,27	15452-1.11/16	228,98
1.3/4	235	10452-1.3/4	400,37	15452-1.3/4	234,55
1.13/16	235	10452-1.13/16	418,17	15452-1.13/16	263,60
1.7/8	235	10452-1.7/8	435,48	15452-1.7/8	291,07
1.15/16	250	10452-1.15/16	460,66	15452-1.15/16	300,51
2	250	10452-2	463,89	15452-2	309,99
2.1/16	265	10452-2.1/16	509,55	15452-2.1/16	328,90
2.1/8	265	10452-2.1/8	527,75	15452-2.1/8	347,83
2.3/16	265	10452-2.3/16	545,97	15452-2.3/16	366,79
2.13/64	265	10452-2.13/64	545,97	15452-2.13/64	366,79
2.1/4	274	10452-2.1/4	564,16	15452-2.1/4	379,91

SAE		Cu-Be		Al-Br	
⊙mm	L mm	Part N°	€	Part N°	€
2.5/16	274	10452-2.5/16	564,16	15452-2.5/16	407,25
2.3/8	274	10452-2.3/8	582,37	15452-2.3/8	418,24
2.7/16	274	10452-2.7/16	582,37	15452-2.7/16	423,77
2.1/2	298	10452-2.1/2	600,55	15452-2.1/2	429,25
2.9/16	298	10452-2.9/16	652,32	15452-2.9/16	412,54
2.5/8	298	10452-2.5/8	709,76	15452-2.5/8	450,03
2.3/4	320	10452-2.3/4	764,34	15452-2.3/4	562,54
2.13/16	320	10452-2.13/16	846,25	15452-2.13/16	600,05
2.7/8	326	10452-2.7/8	990,60	15452-2.7/8	626,14
2.15/16	326	10452-2.15/16	891,74	15452-2.15/16	636,56
3	326	10452-3	946,34	15452-3	645,70
3.1/16	350	10452-3.1/16	1.019,13	15452-3.1/16	684,86
3.1/8	350	10452-3.1/8	1.055,53	15452-3.1/8	730,19
3.1/4	355	10452-3.1/4	1.091,92	15452-3.1/4	750,46
3.3/8	355	10452-3.3/8	1.128,31	15452-3.3/8	769,22
3.1/2	380	10452-3.1/2	1.217,74	15452-3.1/2	796,09
3.9/16	380	10452-3.9/16	1.273,91	15452-3.9/16	841,74
3.5/8	390	10452-3.5/8	1.383,11	15452-3.5/8	952,53
3.3/4	390	10452-3.3/4	1.455,91	15452-3.3/4	993,18
3.7/8	410	10452-3.7/8	1.710,55	15452-3.7/8	1.072,63
3.15/16	410	10452-3.15/16	1.783,41	15452-3.15/16	1.158,42
4	410	10452-4	1.947,21	15452-4	1.204,78
4.1/8	420	10452-4.1/8	2.001,84	15452-4.1/8	1.251,13
4.1/4	445	10452-4.1/4	2.183,84	15452-4.1/4	1.403,79
4.5/16	445	10452-4.5/16	2.365,85	15452-4.5/16	1.438,86
4.1/2	450	10452-4.1/2	3.383,56	15452-4.1/2	1.717,02
4.9/16	450	10452-4.9/16	2.729,68	15452-4.9/16	1.738,21
4.11/16	480	10452-4.11/16	3.093,70	15452-4.11/16	1.798,65
4.7/8	480	10452-4.7/8	3.457,69	15452-4.7/8	2.060,51
4.15/16	480	10452-4.15/16	3.639,69	15452-4.15/16	2.268,55

10531  
15531

Sextavada



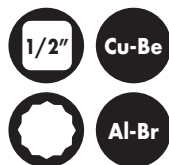
Cu-Be

Al-Br

mm	L mm	Part N°	€	Part N°	€
6	40	10531-06	95,44	15531-06	81,04
7	40	10531-07	97,69	15531-07	83,14
8	40	10531-08	100,33	15531-08	85,11
9	40	10531-09	102,34	15531-09	87,19
10	40	10531-10	94,86	15531-10	89,16
11	40	10531-11	99,75	15531-11	91,18
12	40	10531-12	106,31	15531-12	93,22
13	40	10531-13	111,21	15531-13	95,23
14	40	10531-14	112,86	15531-14	97,29
15	40	10531-15	116,13	15531-15	99,35
16	40	10531-16	120,20	15531-16	101,33
17	40	10531-17	118,31	15531-17	109,42
18	42	10531-18	127,56	15531-18	111,42
19	42	10531-19	133,29	15531-19	113,48
20	42	10531-20	134,95	15531-20	115,50
21	43	10531-21	139,01	15531-21	121,58
22	43	10531-22	143,91	15531-22	125,64
23	43	10531-23	152,33	15531-23	129,69
24	43	10531-24	161,84	15531-24	137,79
25	43	10531-25	181,54	15531-25	141,84
26	43	10531-26	194,63	15531-26	151,98
27	46	10531-27	204,43	15531-27	158,06
28	46	10531-28	215,89	15531-28	162,11
29	46	10531-29	232,56	15531-29	177,01
30	46	10531-30	240,42	15531-30	178,33
32	46	10531-32	264,15	15531-32	182,50

10530  
15530

12 Faces



Cu-Be

Al-Br

mm	L mm	Part N°	€	Part N°	€
6	40	10530-06	95,44	15530-06	77,61
7	40	10530-07	97,69	15530-07	79,42
8	40	10530-08	100,33	15530-08	81,58
9	40	10530-09	102,34	15530-09	83,21
10	40	10530-10	94,86	15530-10	77,12
11	40	10530-11	99,75	15530-11	81,09
12	40	10530-12	106,31	15530-12	86,44
13	40	10530-13	111,21	15530-13	90,43
14	40	10530-14	112,86	15530-14	91,75
15	40	10530-15	116,13	15530-15	94,41
16	40	10530-16	120,20	15530-16	97,74
17	40	10530-17	118,31	15530-17	96,18
18	42	10530-18	127,56	15530-18	103,71
19	42	10530-19	133,29	15530-19	108,38
20	42	10530-20	134,95	15530-20	109,71
21	43	10530-21	139,01	15530-21	113,02
22	43	10530-22	143,91	15530-22	117,00
23	43	10530-23	152,33	15530-23	123,83
24	43	10530-24	161,84	15530-24	131,56
25	43	10530-25	181,54	15530-25	147,59
26	43	10530-26	194,63	15530-26	158,24
27	46	10530-27	204,43	15530-27	166,20
28	46	10530-28	215,89	15530-28	175,52
29	46	10530-29	232,56	15530-29	189,07
30	46	10530-30	240,42	15530-30	195,47
32	46	10530-32	264,15	15530-32	214,76

10544  
15544

Roquete



Cu-Be

Al-Br

Lmm	Part N°	€	Part N°	€
245	10544-001	339,46	15544-001	316,03

# Cu-Be / Al-Br

1/2"

Accessorios para Chaves de Caixa Anti-faísca



10543  
15543

Articulação Universal



1/2"

Cu-Be		Al-Br	
Part N°	€	Part N°	€
10543-009	297,84	15543-009	188,17

10543  
15543

Adaptador Ampliador



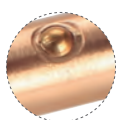
1/2"

3/4"

Cu-Be		Al-Br		
Part N°	€	Part N°	€	
1/2" 3/4"	10543-011	234,96	15543-011	158,77

10543  
15543

Cabo Corrediço em "T" com Tope Lateral



1/2"

Cu-Be		Al-Br			
L mm	Part N°	€	Part N°	€	
1/2"	250	10543-025	231,45	15543-025	227,54

10543  
15543

Extensor

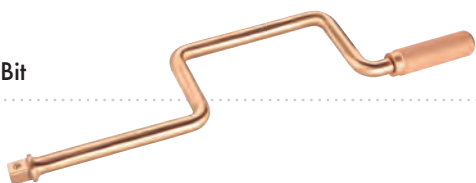


1/2"

Cu-Be		Al-Br		
L mm	Part N°	€	Part N°	€
100	10543-100	200,59	15543-100	153,95
200	10543-200	222,19	15543-200	169,06
250	10543-250	216,02	15543-250	185,69

10543  
15543

Brace Bit



1/2"

Cu-Be		Al-Br			
L mm	H mm	Part N°	€	Part N°	€
390	96	10543-400	450,70	15543-400	309,71

10465  
15465

Chave de Roda



1/2"

Cu-Be		Al-Br		
Part N°	€	Part N°	€	
1/2"	10465-1/2-225	267,96	15465-1/2-225	198,06

10531  
15531

Chaves de Caixa Sextavadas

24  
Pcs

1/2"



Chaves de Caixa

8 • 10 • 11 • 12 • 13 • 14 • 15 • 16 • 17 • 18 • 19 • 20 • 21 • 22 • 24 • 27 • 30 • 32

Articulação Universal



Cabo Corrediço em "T"



Brace Bit



Extensões



250 mm  
100 mm

Roquete



Cu-Be Al-Br

Part N°	€	Part N°	€
10531-001	4.265,58	15531-001	3.170,64

10549  
15549

Sextavada



Cu-Be

Al-Br



Cu-Be

Al-Br

	Cu-Be			Al-Br		
Ø	L mm	Part N°	€	Part N°	€	
17	50	10549-17	159,09	15549-17	130,87	
18	50	10549-18	196,24	15549-18	131,28	
19	50	10549-19	159,78	15549-19	131,68	
21	55	10549-21	175,93	15549-21	144,81	
22	55	10549-22	180,19	15549-22	146,34	
23	55	10549-23	197,74	15549-23	154,62	
24	55	10549-24	202,31	15549-24	164,96	
26	55	10549-26	210,52	15549-26	166,71	
27	55	10549-27	214,19	15549-27	176,86	
28	55	10549-28	227,31	15549-28	185,69	
29	55	10549-29	275,40	15549-29	198,55	
30	60	10549-30	292,09	15549-30	209,40	
32	60	10549-32	329,30	15549-32	236,50	
34	60	10549-34	354,33	15549-34	255,47	
36	60	10549-36	380,67	15549-36	245,17	
38	60	10549-38	406,36	15549-38	291,38	
41	65	10549-41	446,78	15549-41	289,09	
46	65	10549-46	528,33	15549-46	341,53	
50	70	10549-50	579,03	15549-50	416,07	

10548  
15548

12 Faces



Cu-Be

Al-Br



Cu-Be

Al-Br

	Cu-Be			Al-Br		
Ø	L mm	Part N°	€	Part N°	€	
17	50	10548-17	159,09	15548-17	130,87	
18	50	10548-18	196,24	15548-18	131,28	
19	50	10548-19	159,78	15548-19	131,68	
21	55	10548-21	175,93	15548-21	144,81	
22	55	10548-22	180,19	15548-22	146,34	
23	55	10548-23	197,74	15548-23	154,62	
24	55	10548-24	202,31	15548-24	164,96	
26	55	10548-26	210,52	15548-26	166,71	
27	55	10548-27	214,19	15548-27	176,86	
28	55	10548-28	227,31	15548-28	185,69	
29	55	10548-29	275,40	15548-29	198,55	
30	60	10548-30	292,09	15548-30	209,40	
32	60	10548-32	329,30	15548-32	236,50	
34	60	10548-34	354,33	15548-34	255,47	
36	60	10548-36	380,67	15548-36	245,17	
38	60	10548-38	406,36	15548-38	291,38	
41	65	10548-41	446,78	15548-41	289,09	
46	65	10548-46	528,33	15548-46	341,53	
50	70	10548-50	579,03	15548-50	416,07	

10554  
15554

Roquete

3/4"

Cu-Be

Al-Br



Cu-Be

Al-Br

Lmm	Part N°	€	Part N°	€
320	10554-001	678,90	15554-001	635,52

# Cu-Be / Al-Br

3/4"

Accessórios para Chaves de Caixa Anti-faísca



10553  
15553

Articulação Universal



3/4"

Cu-Be		Al-Br	
Part N°	€	Part N°	€
10553-009	617,17	15553-009	474,74

10553  
15553

Adaptador Ampliador



3/4"

1"

Cu-Be		Al-Br	
Part N°	€	Part N°	€
3/4"	10553-011	1"	15553-011
	477,81		323,95

10553  
15553

Adaptador Redutor



3/4"

1/2"

Cu-Be		Al-Br	
Part N°	€	Part N°	€
3/4"	10553-012	1/2"	15553-012
	279,37		193,68

10553  
15553

Cabo Corrediço em "T" com Topo Lateral

3/4"

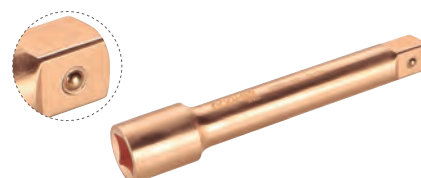


Cu-Be		Al-Br	
L mm	Part N°	Part N°	€
3/4"	450	10553-014	354,86
		15553-014	272,98

10553  
15553

Extensor

3/4"



Cu-Be		Al-Br	
L mm	Part N°	Part N°	€
200	10553-200	15553-200	253,59
			311,66

10531  
15531

Chaves de Caixa Sextavadas

14

Pcs

3/4"



Chaves de Caixa

19 • 22 • 24 • 27 • 30 • 32 • 36 • 38 • 41 • 46 • 50

Cabo Corrediço em "T"



Extensões



200 mm

Roquete



Cu-Be		Al-Br	
Part N°	€	Part N°	€
10549-001	5.064,46	15549-001	3.811,05

10558  
15558

Sextavada

10557  
15557

12 Faces



	Cu-Be			Al-Br		
	L mm	Part N°	€	Part N°	€	
22	55	10558-22	226,10	15558-22	163,41	
24	55	10558-24	261,78	15558-24	180,45	
26	55	10558-26	285,58	15558-26	223,03	
27	55	10558-27	309,40	15558-27	230,76	
28	55	10558-28	305,42	15558-28	235,43	
29	55	10558-29	356,96	15558-29	240,86	
30	60	10558-30	380,76	15558-30	246,27	
31	60	10558-31	358,94	15558-31	266,41	
32	60	10558-32	402,18	15558-32	284,98	
34	60	10558-34	475,94	15558-34	300,48	
36	65	10558-36	499,74	15558-36	322,19	
38	65	10558-38	523,56	15558-38	346,96	
41	70	10558-41	535,46	15558-41	394,18	
46	75	10558-46	583,05	15558-46	438,34	
50	75	10558-50	618,73	15558-50	481,68	
55	80	10558-55	678,25	15558-55	543,65	
60	85	10558-60	844,83	15558-60	607,16	
65	90	10558-65	904,33	15558-65	673,77	
70	90	10558-70	999,52	15558-70	741,90	
75	95	10558-75	1.187,53	15558-75	810,07	
80	95	10558-80	1.261,29	15558-80	880,56	

	Cu-Be			Al-Br		
	L mm	Part N°	€	Part N°	€	
22	55	10557-22	226,10	15557-22	179,43	
24	55	10557-24	261,78	15557-24	207,75	
26	55	10557-26	285,58	15557-26	226,65	
27	55	10557-27	309,40	15557-27	245,54	
28	55	10557-28	305,42	15557-28	242,39	
29	55	10557-29	356,96	15557-29	283,30	
30	60	10557-30	380,76	15557-30	302,18	
31	60	10557-31	358,94	15557-31	284,87	
32	60	10557-32	402,18	15557-32	319,20	
34	60	10557-34	475,94	15557-34	370,18	
36	65	10557-36	499,74	15557-36	396,62	
38	65	10557-38	523,56	15557-38	415,51	
41	70	10557-41	535,46	15557-41	424,97	
46	75	10557-46	583,05	15557-46	462,74	
50	75	10557-50	618,73	15557-50	491,06	
55	80	10557-55	678,25	15557-55	538,29	
60	85	10557-60	844,83	15557-60	670,51	
65	90	10557-65	904,33	15557-65	717,73	
70	90	10557-70	999,52	15557-70	793,28	
75	95	10557-75	1.187,53	15557-75	942,49	
80	95	10557-80	1.261,29	15557-80	1.001,02	

10560  
15560

Roquete



Lmm	Cu-Be		Al-Br	
	Part N°	€	Part N°	€
550	10560-001	1.419,51	15560-001	1.232,80

# Cu-Be / Al-Br

1" Acessórios para Chaves de Caixa Anti-faísca



1"

10559  
15559

Articulação Universal

- 1"
- Cu-Be
- Al-Br



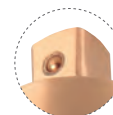
Cu-Be Al-Br

Part N°	€	Part N°	€
10559-003	939,79	15559-003	620,31

10559  
15559

Adaptador Redutor

- 1"
- 3/4"
- Cu-Be
- Al-Br



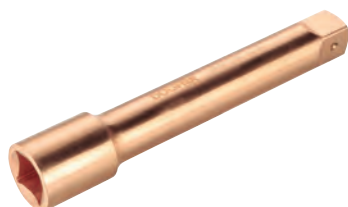
Cu-Be Al-Br

		Part N°	€	Part N°	€
1"	3/4"	10559-012	462,51	15559-012	314,57

10559  
15559

Extensor

- 1"
- Cu-Be
- Al-Br



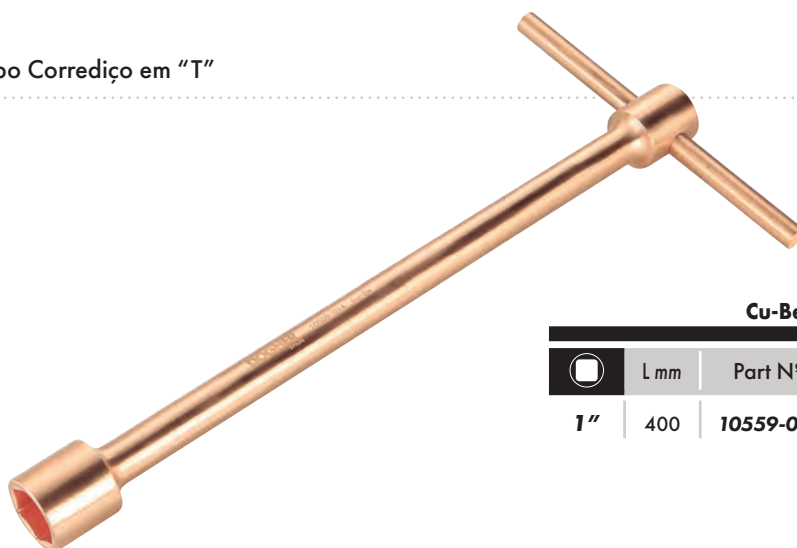
Cu-Be Al-Br

L mm	Part N°	€	Part N°	€
250	10559-250	649,08	15559-250	437,77

10559  
15559

Cabo Corrediço em "T"

- 1"
- Cu-Be
- Al-Br



Cu-Be Al-Br

	L mm	Part N°	€	Part N°	€
1"	400	10559-014	648,06	15559-014	609,42

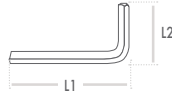
10600  
15600

Sextavada Curta



Cu-Be

Al-Br



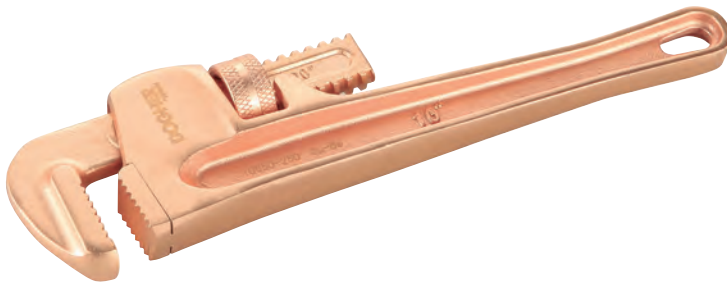
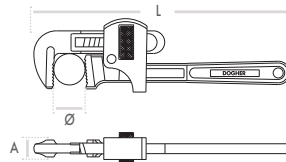
Ø mm	Cu-Be				Al-Br	
	L1 mm	L2 mm	Part N°	€	Part N°	€
<b>1,5</b>	38	13	<b>10600-01,5</b>	<b>66,51</b>	<b>15600-01,5</b>	<b>41,60</b>
<b>2</b>	38	13	<b>10600-02</b>	<b>67,61</b>	<b>15600-02</b>	<b>41,60</b>
<b>3</b>	59	25	<b>10600-03</b>	<b>68,41</b>	<b>15600-03</b>	<b>42,12</b>
<b>4</b>	65	30	<b>10600-04</b>	<b>69,50</b>	<b>15600-04</b>	<b>42,76</b>
<b>5</b>	79	32	<b>10600-05</b>	<b>72,51</b>	<b>15600-05</b>	<b>44,63</b>
<b>6</b>	85	37	<b>10600-06</b>	<b>75,62</b>	<b>15600-06</b>	<b>46,53</b>
<b>7</b>	88	43	<b>10600-07</b>	<b>83,72</b>	<b>15600-07</b>	<b>51,53</b>
<b>8</b>	92	44	<b>10600-08</b>	<b>87,85</b>	<b>15600-08</b>	<b>54,07</b>
<b>9</b>	97	44	<b>10600-09</b>	<b>97,06</b>	<b>15600-09</b>	<b>59,73</b>
<b>10</b>	110	45	<b>10600-10</b>	<b>104,20</b>	<b>15600-10</b>	<b>64,14</b>
<b>12</b>	130	52	<b>10600-12</b>	<b>201,11</b>	<b>15600-12</b>	<b>80,84</b>

10650  
15650

Chave para Tubo Profissional

Cu-Be

Al-Br



L mm	Ø mm	Cu-Be		Al-Br	
		Part N°	€	Part N°	€
<b>200</b>	25	<b>10650-200</b>	<b>479,79</b>	<b>15650-200</b>	<b>354,47</b>
<b>250</b>	30	<b>10650-250</b>	<b>556,17</b>	<b>15650-250</b>	<b>411,62</b>
<b>300</b>	40	<b>10650-300</b>	<b>604,71</b>	<b>15650-300</b>	<b>445,95</b>
<b>350</b>	50	<b>10650-350</b>	<b>710,10</b>	<b>15650-350</b>	<b>525,96</b>
<b>450</b>	60	<b>10650-450</b>	<b>904,38</b>	<b>15650-450</b>	<b>668,12</b>
<b>600</b>	75	<b>10650-600</b>	<b>1.334,44</b>	<b>15650-600</b>	<b>886,95</b>
<b>900</b>	85	<b>10650-900</b>	<b>2.294,91</b>	<b>15650-900</b>	<b>1.528,56</b>
<b>1200</b>	110	<b>10650-1200</b>	<b>4.181,09</b>	<b>15650-1200</b>	<b>2.784,87</b>

# Cu-Be / Al-Br

Chaves para Válvulas Anti-fisca



10680  
15680

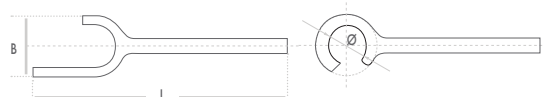
Chave para Rodas de Válvulas

Cu-Be

Al-Br



Cu-Be			Al-Br			
B mm	Ø mm	L mm	Part N°	€	Part N°	€
60	36	370	10680-370	537,89	15680-370	305,59



10685  
15685

Chave de Tampar

Cu-Be

Al-Br



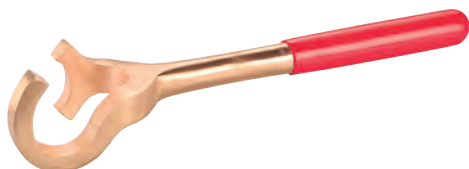
Cu-Be			Al-Br			
L mm	S1 mm	S2 mm	Part N°	€	Part N°	€
300	38	52	10685-300	330,90	15685-300	255,67

10681  
15681

Chave para Válvulas

Cu-Be

Al-Br



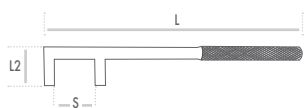
Cu-Be				Al-Br			
L mm	L"	B mm	Ø mm	Part N°	€	Part N°	€
210	8	62	23	10681-30	329,74	15681-30	313,10
215	8,5	57	32	10681-32	382,55	15681-32	353,62
290	11	58	36	10681-35	484,44	15681-35	460,02
400	16	83	46	10681-40	851,10	15681-40	808,17
485	19	100	48	10681-45	971,59	15681-45	922,58
800	31	114	58	10681-48	1.162,55	15681-48	1.103,93

10690  
15690

Gancho Girador Válvulas

Cu-Be

Al-Br



Cu-Be			Al-Br			
S mm	L mm	L2 mm	Part N°	€	Part N°	€
30	200	44	10690-30	285,21	15690-30	191,01
32	300	50	10690-32	392,14	15690-32	259,94
35	250	47	10690-35	317,40	15690-35	215,20
40	300	50	10690-40	392,14	15690-40	259,94
45	350	58	10690-45	478,39	15690-45	286,53
48	375	62	10690-48	518,67	15690-48	315,55
50	400	67	10690-50	550,85	15690-50	283,61
55	450	73	10690-55	657,79	15690-55	346,97
60	500	79	10690-60	708,42	15690-60	369,93
65	550	82	10690-65	807,29	15690-65	414,68
70	600	85	10690-70	886,67	15690-70	464,22
75	650	88	10690-75	986,71	15690-75	518,66
80	700	91	10690-80	1.122,41	15690-80	592,38
85	750	97	10690-85	1.248,90	15690-85	667,36
90	800	103	10690-90	1.377,70	15690-90	701,21

10712  
15712

Marreta Punho Madeira

Cu-Be

Al-Br



		Cu-Be		Al-Br	
g	L mm	Part N°	€	Part N°	€
2000	400	10712-2000A	516,67	15712-2000A	413,41
2500	400	10712-2500A	644,49	15712-2500A	516,61
3000	700	10712-3000A	773,24	15712-3000A	619,82
4000	900	10712-4000A	1.025,86	15712-4000A	821,63

10713  
15713

Marreta Punho Fibra de Vidro

Cu-Be

Al-Br



Pino de Segurança

		Cu-Be		Al-Br	
g	L mm	Part N°	€	Part N°	€
1000	400	10713-1000A	295,58	15713-1000A	212,95
1500	400	10713-1500A	340,55	15713-1500A	245,54
2000	400	10713-2000A	416,68	15713-2000A	300,67
2500	700	10713-2500A	556,18	15713-2500A	400,89
3000	700	10713-3000A	660,97	15713-3000A	476,05
3500	700	10713-3500A	834,81	15713-3500A	601,31

10713  
15713

Marreta Octogonal Punho Fibra de Vidro

Cu-Be

Al-Br



Pino de Segurança

		Cu-Be		Al-Br	
g	L mm	Part N°	€	Part N°	€
450	310	10713-450	162,53	15713-450	119,52
1000	400	10713-1000	262,94	15713-1000	166,89
1500	400	10713-1500	347,14	15713-1500	222,50
2000	400	10713-2000	473,93	15713-2000	305,94
2500	700	10713-2500	549,74	15713-2500	389,39
3000	700	10713-3000	663,49	15713-3000	472,81
4500	900	10713-4500	928,89	15713-4500	625,78
5000	900	10713-5000	1.064,04	15713-5000	681,41
6800	900	10713-6800	1.345,96	15713-6800	945,63
8000	900	10713-8000	1.578,79	15713-8000	1.001,24
10000	900	10713-10000	2.085,25	15713-10000	1.400,58
12900	900	10713-12000	2.559,13	15713-12000	1.700,72

# Cu-Be / Al-Br

Martelos Anti-faísca



10700  
15700

Martelo de Bola Punho Madeira

Cu-Be

Al-Br



g	L mm	Cu-Be		Al-Br	
		Part N°	€	Part N°	€
300	280	10700-300	104,18	15700-300	68,49
450	310	10700-450	138,81	15700-450	94,66
700	340	10700-700	195,32	15700-700	133,10
900	350	10700-900	261,11	15700-900	177,46

10701  
15701

Martelo de Bola Punho Fibra de Vidro

Cu-Be

Al-Br



Pino de Segurança

g	L mm	Cu-Be		Al-Br	
		Part N°	€	Part N°	€
300	280	10701-300	97,79	15701-300	72,07
450	310	10701-450	141,50	15701-450	92,69
700	340	10701-700	178,76	15701-700	121,70
900	350	10701-900	272,08	15701-900	185,19

10708  
15708

Martelo Unha Curva

Cu-Be

Al-Br



Pino de Segurança

g	L mm	Cu-Be		Al-Br	
		Part N°	€	Part N°	€
500	300	10708-500	143,23	15708-500	90,06
700	330	10708-700	169,60	15708-700	106,42

10727  
15727

Martelo Alemão

Cu-Be

Al-Br



Pino de Segurança

g	L mm	Cu-Be		Al-Br	
		Part N°	€	Part N°	€
255	280	10727-100	91,69	15727-100	73,37
355	280	10727-200	122,25	15727-200	84,30
455	280	10727-300	138,55	15727-300	103,57
500	310	10727-500	183,38	15727-500	130,10
800	340	10727-800	244,50	15727-800	168,63
1000	340	10727-1000	285,24	15727-1000	204,76
1500	400	10727-1500	387,12	15727-1500	277,05
2000	450	10727-2000	483,66	15727-2000	334,87

10720  
15727

Picareta de Caldeireiro

Cu-Be

Al-Br



Pino de Segurança

g	L mm	Cu-Be		Al-Br	
		Part N°	€	Part N°	€
200	280	10720-200	122,29	15720-200	78,35
400	300	10720-400	153,69	15720-400	98,36
600	340	10720-600	169,39	15720-600	108,35
900	350	10720-900	239,40	15720-900	176,09

# Cu-Be / Al-Br

Picaretas e Cunhas Anti-faisca

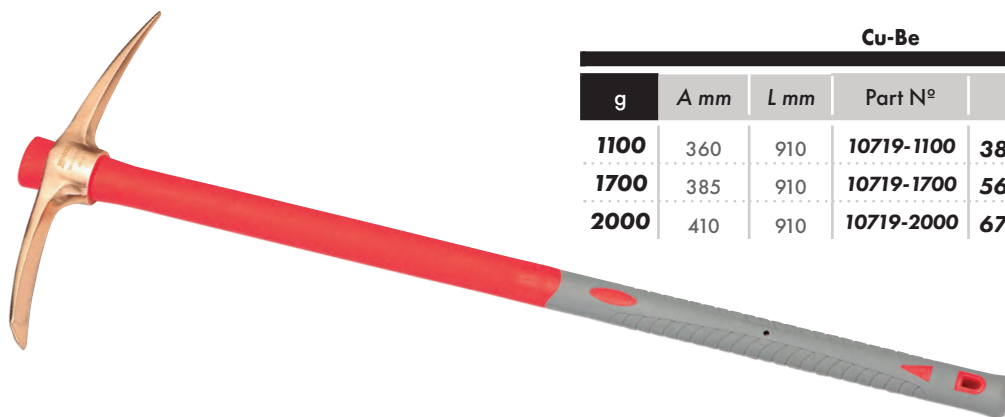


10719  
15719

Picareta Pá-Pico

Cu-Be

Al-Br



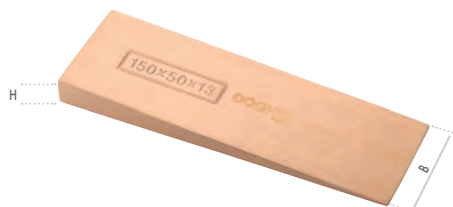
g	Cu-Be			Al-Br		
	A mm	L mm	Part N°	€	Part N°	€
<b>1100</b>	360	910	<b>10719-1100</b>	<b>385,33</b>	<b>15719-1100</b>	<b>217,28</b>
<b>1700</b>	385	910	<b>10719-1700</b>	<b>562,70</b>	<b>15719-1700</b>	<b>317,65</b>
<b>2000</b>	410	910	<b>10719-2000</b>	<b>673,54</b>	<b>15719-2000</b>	<b>379,03</b>

10726  
15726

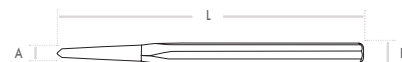
Cunha

Cu-Be

Al-Br



L mm	B mm	H mm	Cu-Be		Al-Br	
			Part N°	€	Part N°	€
<b>80</b>	13	6	<b>10726-80-13</b>	<b>18,73</b>	<b>15726-80-13</b>	<b>12,78</b>
<b>100</b>	50	10	<b>10726-100-50</b>	<b>69,37</b>	<b>15726-100-50</b>	<b>47,31</b>
<b>135</b>	50	18	<b>10726-135-50</b>	<b>132,10</b>	<b>15726-135-50</b>	<b>89,92</b>
<b>150</b>	25	8	<b>10726-150-25</b>	<b>54,98</b>	<b>15726-150-25</b>	<b>37,59</b>
<b>150</b>	30	13	<b>10726-150-30</b>	<b>65,94</b>	<b>15726-150-30</b>	<b>43,72</b>
<b>150</b>	40	8	<b>10726-150-40</b>	<b>69,04</b>	<b>15726-150-40</b>	<b>45,64</b>
<b>150</b>	50	13	<b>10726-150-50</b>	<b>118,31</b>	<b>15726-150-50</b>	<b>80,45</b>
<b>180</b>	13	6	<b>10726-180-13</b>	<b>54,98</b>	<b>15726-180-13</b>	<b>43,25</b>
<b>180</b>	32	13	<b>10726-180-32</b>	<b>79,78</b>	<b>15726-180-32</b>	<b>54,42</b>
<b>180</b>	50	19	<b>10726-180-50</b>	<b>177,18</b>	<b>15726-180-50</b>	<b>120,68</b>
<b>200</b>	20	30	<b>10726-200-20</b>	<b>156,83</b>	<b>15726-200-20</b>	<b>106,48</b>
<b>200</b>	30	30	<b>10726-200-30</b>	<b>191,00</b>	<b>15726-200-30</b>	<b>130,13</b>
<b>200</b>	40	40	<b>10726-200-40</b>	<b>297,10</b>	<b>15726-200-40</b>	<b>177,63</b>
<b>200</b>	50	12	<b>10726-200-50</b>	<b>142,90</b>	<b>15726-200-50</b>	<b>103,24</b>
<b>230</b>	40	20	<b>10726-230-40</b>	<b>201,41</b>	<b>15726-230-40</b>	<b>137,25</b>
<b>250</b>	40	30	<b>10726-250-40</b>	<b>312,98</b>	<b>15726-250-40</b>	<b>212,96</b>
<b>300</b>	50	40	<b>10726-300-50</b>	<b>612,38</b>	<b>15726-300-50</b>	<b>416,47</b>



10749  
15749

Punção Sextavado

Cu-Be

Al-Br



Cu-Be Al-Br

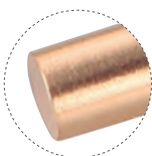
A mm	L mm	Part N°	€	Part N°	€
12	100	10749-100	64,82	15749-100	46,83
14	150	10749-150	100,78	15749-150	35,78

10746  
15746

Saca-Troços Cilíndrico

Cu-Be

Al-Br



Cu-Be Al-Br

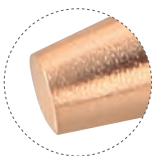
Ø mm	Ø1 mm	L mm	Part N°	€	Part N°	€
2	9	110	10746-02	112,14	15746-02	45,14
3	9	110	10746-03	108,48	15746-03	45,14
4	10	110	10746-04	108,48	15746-04	45,14
5	10	110	10746-05	124,18	15746-05	55,54
6	12	115	10746-06	133,46	15746-06	55,54
8	14	120	10746-08	142,02	15746-08	59,10
10	14	120	10746-10	152,22	15746-10	75,12

10748  
15748

Saca-Troços Cónico

Cu-Be

Al-Br



Cu-Be Al-Br

A mm	L mm	Part N°	€	Part N°	€
18	200	10748-05	86,85	15748-05	64,33
20	250	10748-08	103,61	15748-08	76,76
20	300	10748-10	123,47	15748-10	91,46

10757  
15757

Escopro Cortafríos

Cu-Be

Al-Br



Cu-Be Al-Br

A mm	L mm	Part N°	€	Part N°	€
22	150	10757-150	122,65	15757-150	71,51
22	200	10757-200	157,86	15757-200	91,94
24	250	10757-250	213,04	15757-250	124,29
25	300	10757-300	253,58	15757-300	148,10
27	400	10757-400	326,79	15757-400	190,68

10761  
15761

Escopro Octogonal

Cu-Be

Al-Br



Cu-Be Al-Br

A mm	B mm	L mm	Part N°	€	Part N°	€
4	4	140	10761-150	175,71	15761-150	102,57
4	4	200	10761-200	281,40	15761-200	164,55
5	5	300	10761-300	460,54	15761-300	269,17

# Cu-Be / Al-Br

Arcos e Folhas de Serra Anti-faísca



10840  
15840

Arco de Serra

Cu-Be

Al-Br



Cu-Be		Al-Br		
L mm	Part N°	€	Part N°	€
500	10840-001	819,32	15840-001	515,87

10840  
15840

Folha de Serra de Mão

Cu-Be

Al-Br



Cu-Be		Al-Br			
L mm	A mm	Part N°	€	Part N°	€
300	12	10840-050	261,53	15840-050	166,33



**10804**

Lima Chata de Grão Entrefino Punho Bimaterial

Cu-Be



Cu-Be

L mm	L"	A mm	B mm	Part N°	€
200	8	20	6	10804-200	180,37
300	12	31	8	10804-300	312,55

**10805**

Lima Meia Cana de Grão Entrefino Punho Bimaterial

Cu-Be



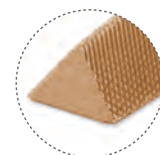
Cu-Be

L mm	L"	A mm	B mm	Part N°	€
200	8	19	10	10805-200	178,91

**10806**

Lima Triangular de Grão Entrefino Punho Bimaterial

Cu-Be



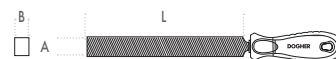
Cu-Be

L mm	L"	B mm	Part N°	€
200	8	7	10806-200	186,95

# Cu-Be / Al-Br

Limas Anti-faisca

**DOGHER**  
TOOLS



**10807**

Lima Quadrada de Grão Entrefino Punho Bimaterial

Cu-Be



Cu-Be

L mm	L"	A mm	Part N°	€
200	10	10	10807-200	173,81

**10808**

Lima Cana Redonda de Grão Entrefino Punho Bimaterial

Cu-Be



Cu-Be

L mm	L"	Ø mm	Part N°	€
200	8	6	10808-200	173,81

10892  
15892

Chave para Andaimes

Cu-Be

Al-Br



mm	L mm	Cu-Be		Al-Br	
		Part N°	€	Part N°	€
10	230	10892-10	237,71	15892-10	155,03
11	240	10892-11	250,22	15892-11	163,19
12	250	10892-12	263,43	15892-12	171,80
13	260	10892-13	277,26	15892-13	180,83
14	270	10892-14	291,88	15892-14	190,35
16	300	10892-16	323,42	15892-16	210,93
17	310	10892-17	340,43	15892-17	222,02
18	320	10892-18	358,34	15892-18	233,71
19	330	10892-19	358,34	15892-19	233,71
20	340	10892-20	377,21	15892-20	246,02
22	350	10892-22	397,07	15892-22	258,94
24	370	10892-24	397,07	15892-24	258,94
27	400	10892-27	485,27	15892-27	316,47
30	430	10892-30	485,27	15892-30	316,47
32	430	10892-32	485,27	15892-32	316,47

10870  
15870

Pá Redonda com Cabo de Madeira

Cu-Be

Al-Br



A mm	B mm	L mm	Cu-Be		Al-Br	
			Part N°	€	Part N°	€
240	420	1450	10870-010	535,13	15870-010	288,70

## Cu-Be / Al-Br

Enxadas, Raspador e Barras de Desmoldar Ainti-faisca



10876  
15876

Enxada com Cabo de Madeira

Cu-Be

Al-Br



Cu-Be

Al-Br

A mm	B mm	Part N°	€	Part N°	€
130	130	10876-130	687,49	15876-130	432,87
200	200	10876-200	1.041,84	15876-200	655,98

10850  
15850

Raspador em Ângulo

Cu-Be

Al-Br



Cu-Be

Al-Br

A mm	L mm	Part N°	€	Part N°	€
45	300	10850-001	254,11	15850-001	159,46

10884  
15884

Barra de Desmoldar

Cu-Be

Al-Br



Cu-Be

Al-Br

L mm	Ø mm	Part N°	€	Part N°	€
460	16	10884-460	390,92	15884-460	191,55
600	20	10884-600	577,82	15884-600	453,79
760	22	10884-760	744,33	15884-760	491,93
900	22	10884-900	988,50	15884-900	515,84

10850  
15850

Raspador Plano

Cu-Be

Al-Br



		Cu-Be			Al-Br	
A mm	L mm	L1 mm	Part N°	€	Part N°	€
30	325	200	10850-010	233,35	15850-010	146,76

10850  
15850

Raspador Folha Larga

Cu-Be

Al-Br



		Cu-Be			Al-Br	
A mm	L mm	L1 mm	Part N°	€	Part N°	€
100	720	115	10850-020	245,98	15850-020	148,75

10850  
15850

Raspador com 3 Lados

Cu-Be

Al-Br



		Cu-Be			Al-Br	
A mm	L mm	L1 mm	Part N°	€	Part N°	€
26	400	300	10850-030	287,99	15850-030	204,67

## Cu-Be / Al-Br

Raspador, Espatulas e Extratores Anti-faísca

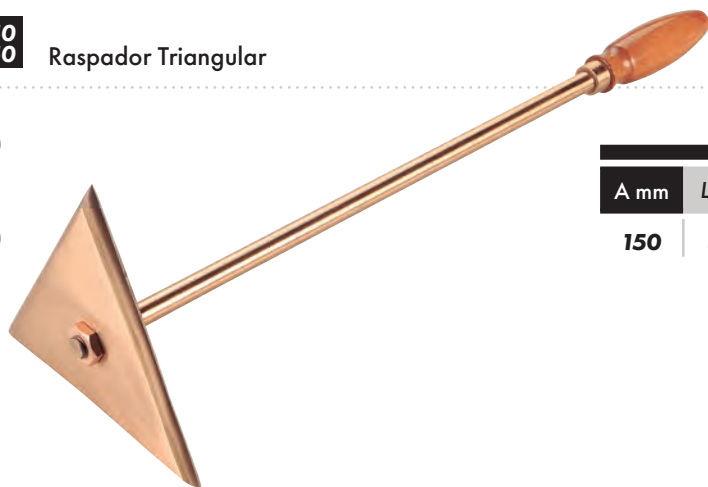


10850  
15850

Raspador Triangular

Cu-Be

Al-Br



		Cu-Be		Al-Br	
A mm	L mm	Part N°	€	Part N°	€
150	470	10850-040	665,60	15850-040	452,60

10878  
15878

Espatula Flexivel

Cu-Be

Al-Br



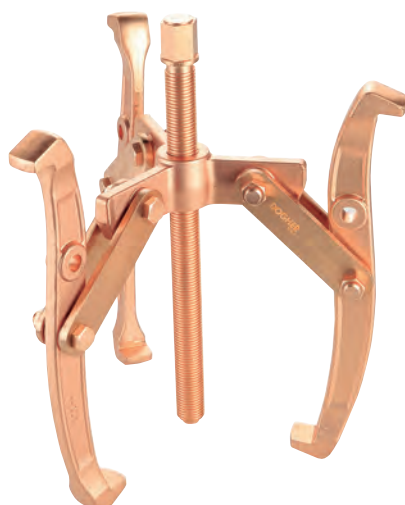
		Cu-Be			Al-Br		
A mm	L mm	L1 mm	Part N°	€	Part N°	€	
50	200	95	10878-50	168,93	15878-50	88,34	
75	200	95	10878-75	259,21	15878-75	151,49	

10903  
15903

Extrator Reversível de 3 Pernas

Cu-Be

Al-Br



		Cu-Be			Al-Br		
A min	A max	L"	Part N°	€	Part N°	€	
50	100	4"	10903-100	1.581,68	15903-100	1.074,69	
60	150	6"	10903-150	1.748,21	15903-150	1.193,08	
70	200	8"	10903-200	1.866,65	15903-200	1.274,77	
80	350	14"	10903-350	3.168,98	15903-350	1.909,88	