

**PECAUT**  
ENTREPRISE TECHNIQUE  
Depuis 1964



1964 - 2020  
**56**  
YEARS

**PECAUT**  
Entreprise Technique SA  
Rue du Puits-Godet 10  
CH-2002 Neuchâtel  
Suisse

**Tél.** +41 032 710 14 14  
**Fax** +41 032 710 14 13  
**Email** [info@pecaut.com](mailto:info@pecaut.com)  
**Web** [www.pecaut.com](http://www.pecaut.com)

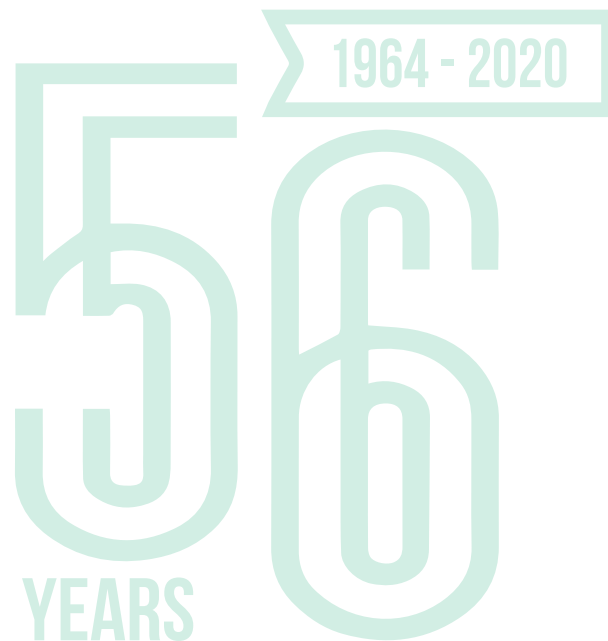
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## HORLOGERIE & INDUSTRIE

**DUMONT**   
S W I S S M A D E 

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DUMONT  
SWISSMADE

Depuis sa fondation en 1881, Dumont perpétue sa tradition. Elle est la dernière manufacture suisse de brucelles à fabriquer la totalité de son programme en Suisse !

Indépendante, elle demeure en mains familiales. Les spécialistes s'accordent à considérer que **les brucelles Dumont sont la référence mondiale.**

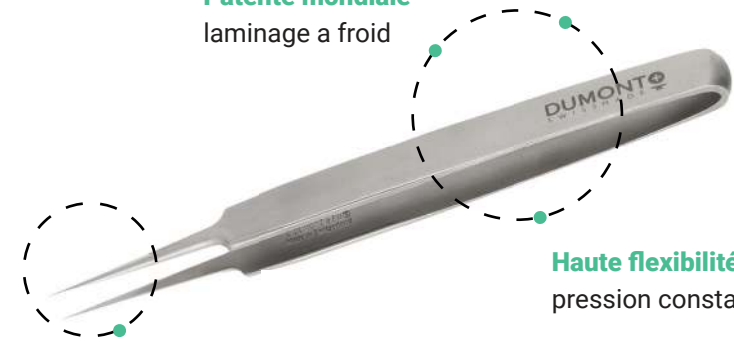
L'innovation reste la clef de notre succès. C'est pourquoi nous avons développé une nouvelle technique de production révolutionnaire et qui confère à cette nouvelle ligne de brucelles une aisance dans son nettoyage/décontamination !



## Notre nouvelle TECHNIQUE DE PRODUCTION

Patente mondiale  
laminage a froid

Nouveau design  
fabrication Suisse



Haute flexibilité  
pression constante

Précision des pointes et pression garanties  
grâce à la nouvelle technique de production



Nettoyage facile  
Sans microfilm (bactéries)

Marque enregistrée  
Numéro de série pour suivi (preuve d'origine)

Système à 2 ou 4 vis disponible sur demande  
Compatible avec la plupart des pointes interchangeables

## B159

Modèle patenté © Pointes en buis type 159, Ne marque ou ne raye pas



Référence	Acier/alliage	Description	A mm	inch	B mm	inch	L mm	inch	Prix (CHF)
10004-B159-SM	Antimagn.	Manche & Pointes	0.50	0.0197	0.50	0.0197	130	5.1220	41.10
TIP-159-BUI	Boxwood (Buxus)	Kit 2 pointes	0.50	0.0197	0.50	0.0197	41	1.6154	21.35

## B2A

Modèle patenté © Pointes en buis type 2A, Ne marque ou ne raye pas



Référence	Acier/alliage	Description	A mm	inch	B mm	inch	L mm	inch	Prix (CHF)
10004-B2A-SM	Antimagn.	Manche & Pointes	0.20	0.0079	1.50	0.0591	130	5.1220	41.10
TIP-2A-BUI	Boxwood (Buxus)	Kit 2 pointes	0.20	0.0079	1.50	0.0591	41	1.6154	21.35

## BF

Modèle patenté © Pointes en buis type F, Ne marque ou ne raye pas



Référence	Acier/alliage	Description	A mm	inch	B mm	inch	L mm	inch	Prix (CHF)
10004-BF-SM	Antimagn.	Manche & Pointes	0.20	0.0079	2.00	0.0788	130	5.1220	41.10
TIP-F-BUI	Boxwood (Buxus)	Kit 2 pointes	0.20	0.0079	2.00	0.0788	40	1.5760	21.35

## BFSP

Modèle patenté © Pointes en buis type FSP, Ne marque ou ne raye pas



Référence	Acier/alliage	Description	A mm	inch	B mm	inch	L mm	inch	Prix (CHF)
10004-BFSP-SM	Antimagn.	Manche & Pointes	0.20	0.0079	2.00	0.0788	130	5.1220	41.10
TIP-FSP-BUI	Boxwood (Buxus)	Kit 2 pointes	0.20	0.0079	2.00	0.0788	40	1.5760	21.35

## B7

Modèle patenté © Pointes en buis type 7, Ne marque ou ne raye pas



Référence	Acier/alliage	Description	A mm	inch	B mm	inch	L mm	inch	Prix (CHF)
10004-B7-SM	Antimagn.	Manche & Pointes	0.50	0.0197	12.00	0.4728	130	5.1220	41.10
TIP-7-BUI	Boxwood (Buxus)	Kit 2 pointes	0.50	0.0197	12.00	0.4728	40	1.5760	21.35

## E4

Manche WA1 avec pointes 4-ESD



Référence	Acier/alliage	Description	A mm	inch	B mm	inch	L mm	inch	ESD	Prix (CHF)
10004-E4-SM	Antimagn.	Manche & Pointes	0.60	0.0236	0.30	0.0118	130	5.1220	Oui	23.65
TIP-4-ESD	Black ESD	Kit 2 pointes	0.60	0.0236	0.30	0.0118	40	1.5760	Oui	3.80

## E15

Manche WA1 avec pointes fines 15-ESD



Référence	Acier/alliage	Description	A mm	inch	B mm	inch	L mm	inch	ESD	Prix (CHF)
10004-E15-SM	Antimagn.	Manche & Pointes	0.30	0.0118	0.30	0.0118	130	5.1220	Oui	23.65
TIP-15-ESD	Black ESD	Kit 2 pointes	0.30	0.0118	0.30	0.0118	40	1.5760	Oui	3.80

## E16

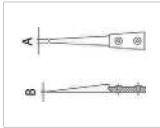
Manche WA1 avec pointes fines 16-ESD



Référence	Acier/alliage	Description	A mm	inch	B mm	inch	L mm	inch	ESD	Prix (CHF)
10004-E16-SM	Antimagn.	Manche & Pointes	0.25	0.0099	0.15	0.0059	130	5.1220	Oui	23.65
TIP-16-ESD	Black ESD	Kit 2 pointes	0.25	0.0099	0.15	0.0059	40	1.5760	Oui	3.80

## E17

### Manche WA1 avec pointes 17-ESD



Référence	Acier/alliage	Description	A mm	inch	B mm	inch	L mm	inch	ESD	Prix (CHF)
10004-E17-SM	Antimagn.	Manche & Pointes	1.50	0.0591	0.35	0.0138	130	5.1220	Oui	23.65
TIP-17-ESD	Black ESD	Kit 2 pointes	1.50	0.0591	0.35	0.0138	40	1.5760	Oui	3.80

## D4

### Manche WA1 avec pointes 4-DEL



Référence	Acier/alliage	Description	A mm	inch	B mm	inch	L mm	inch	Prix (CHF)
10004-D4-SM	Antimagn.	Manche & Pointes	0.60	0.0236	0.30	0.0118	130	5.1220	23.65
TIP-4-DEL	White Delrin	Kit 2 pointes	0.60	0.0236	0.30	0.0118	40	1.5760	3.80

## D15

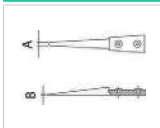
### Manche WA1 avec pointes fines 15-DEL



Référence	Acier/alliage	Description	A mm	inch	B mm	inch	L mm	inch	Prix (CHF)
10004-D15-SM	Antimagn.	Manche & Pointes	0.30	0.0118	0.30	0.0118	130	5.1220	23.65
TIP-15-DEL	White Delrin	Kit 2 pointes	0.30	0.0118	0.30	0.0118	40	1.5760	3.80

## D17

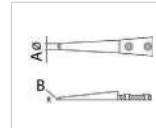
### Manche WA1 avec pointes 17-DEL



Référence	Acier/alliage	Description	A mm	inch	B mm	inch	L mm	inch	Prix (CHF)
10004-D17-SM	Antimagn.	Manche & Pointes	1.50	0.0591	0.35	0.0138	130	5.1220	23.65
TIP-17-DEL	White Delrin	Kit 2 pointes	1.50	0.0591	0.35	0.0138	40	1.5760	3.80

## S2

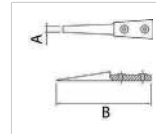
### Manche WA1 avec pointes 2-STD



Référence	Acier/alliage	Description	A mm	inch	B mm	inch	L mm	inch	Prix (CHF)
10004-S2-SM	Antimagn.	Manche & Pointes	2.50	0.0985	1.00	0.0394	130	5.1220	23.65
TIP-2-STD	Grey STD	Kit 2 pointes	2.50	0.0985	1.00	0.0394	40	1.5760	3.80

## S3

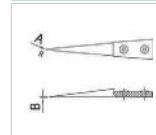
### Manche WA1 avec pointes 3-STD



Référence	Acier/alliage	Description	A mm	inch	B mm	inch	L mm	inch	Prix (CHF)
10004-S3-SM	Antimagn.	Manche & Pointes	2.30	0.0906	35.00	1.3790	125	4.9250	23.65
TIP-3-STD	Grey STD	Kit 2 pointes	2.30	0.0906	35.00	1.3790	35	1.3790	3.80

## S15

### Manche WA1 avec pointes fines 15-STD



Référence	Acier/alliage	Description	A mm	inch	B mm	inch	L mm	inch	Prix (CHF)
10004-S15-SM	Antimagn.	Manche & Pointes	0.30	0.0118	0.30	0.0118	130	5.1220	23.65
TIP-15-STD	Grey STD	Kit 2 pointes	0.30	0.0118	0.30	0.0118	40	1.5760	3.80

## S17

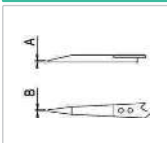
### Manche WA1 avec pointes 17-STD



Référence	Acier/alliage	Description	A mm	inch	B mm	inch	L mm	inch	Prix (CHF)
10004-S17-SM	Antimagn.	Manche & Pointes	1.50	0.0591	0.35	0.0138	130	5.1220	23.65
TIP-17-STD	Grey STD	Kit 2 pointes	1.50	0.0591	0.35	0.0138	40	1.5760	3.80

## CA275

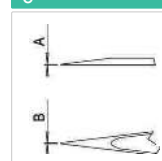
### Manche WA2 avec pointes CA275.CW



Référence	Acier/alliage	Description	A mm	Inch	B mm	Inch	L mm	Inch	Prix (CHF)
10004-CA275-SM	Antimagn.	Manche & Pointes	0.30	0.0118	0.40	0.0158	133	5.2402	60.00
TIP-CA275-CW	Black Ceramic	Kit 2 pointes	0.30	0.0118	0.40	0.0158	39	1.5366	26.25

## 0

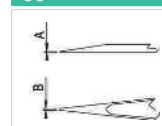
### Forme Genève, pointes fines



Référence	Acier/alliage	Description	A mm	Inch	B mm	Inch	L mm	Inch	Prix (CHF)
0102-0-PO	Inox 02	Polie	0.10	0.0039	0.17	0.0067	115	4.5310	25.40
0302-0-PO	Inox 02	Polie	0.10	0.0039	0.17	0.0067	115	4.5310	21.60
0304-0-CO	Antimagn.	Revêt. Epoxy	0.10	0.0039	0.17	0.0067	115	4.5310	19.10

## 00

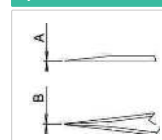
### Forme Genève, pointes fortes, corps épais



Référence	Acier/alliage	Description	A mm	Inch	B mm	Inch	L mm	Inch	Prix (CHF)
0101-00-PO	Carbone	Polie	0.25	0.0099	0.45	0.0177	115	4.5310	27.80
0302-00-CO	Inox 02	Revêt. Epoxy	0.25	0.0099	0.45	0.0177	115	4.5310	21.60
0102-00-PO	Inox 02	Polie	0.25	0.0099	0.45	0.0177	115	4.5310	24.40
0304-00-PO	Antimagn.	Polie	0.25	0.0099	0.45	0.0177	115	4.5310	18.00

## 1

### Pointes fortes

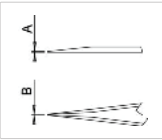


Référence	Acier/alliage	Description	A mm	Inch	B mm	Inch	L mm	Inch	Prix (CHF)
0101-1-PO	Carbone	Polie	0.10	0.0039	0.17	0.0067	120	4.7280	28.80
0103-1-PO	Dumoxel®	Polie	0.12	0.0047	0.20	0.0079	120	4.7280	23.40
0302-1-PO	Inox 02	Polie	0.12	0.0047	0.20	0.0079	120	4.7280	21.60
0102-1-PO	Inox 02	Polie	0.12	0.0047	0.20	0.0079	120	4.7280	25.80
0303-1-PO	Dumoxel®	Polie	0.12	0.0047	0.20	0.0079	120	4.7280	20.20
0304-1-CO	Antimagn.	Revêt. Epoxy	0.12	0.0047	0.20	0.0079	120	4.7280	19.60
0304-1-PO	Antimagn.	Polie	0.12	0.0047	0.20	0.0079	120	4.7280	18.00
0109-1-PO	Dumostar®	Polie	0.12	0.0047	0.20	0.0079	120	4.7280	29.30*

\* Taxe Dumostar® incluse

## 1AM

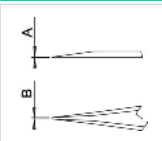
Pointes fortes, très populaires en horlogerie. En laiton, revêtues d'un flash d'or.



Référence	Acier/alliage	Description	A mm	inch	B mm	inch	L mm	inch	Prix (CHF)
5306-1AM-PS	Laiton	Matte	0.12	0.0047	0.20	0.0079	120	4.7280	30.00

## 2

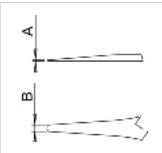
Pointes fortes et longues



Référence	Acier/alliage	Description	A mm	inch	B mm	inch	L mm	inch	Prix (CHF)
0101-2-PO	Carbone	Polie	0.12	0.0047	0.30	0.0118	120	4.7280	26.60
0109-2-PO	Dumostar®	Polie	0.14	0.0055	0.34	0.0134	120	4.7280	28.55*
0302-2-PO	Inox 02	Polie	0.14	0.0055	0.34	0.0134	120	4.7280	20.20
0103-2-PO	Dumoxel®	Polie	0.14	0.0055	0.34	0.0134	120	4.7280	24.40
0102-2-PO	Inox 02	Polie	0.14	0.0055	0.34	0.0134	120	4.7280	25.80
0303-2-PO	Dumoxel®	Polie	0.14	0.0055	0.34	0.0134	120	4.7280	20.20
0304-2-PO	Antimagn.	Polie	0.14	0.0055	0.34	0.0134	120	4.7280	18.00

## 2A

Pointes plates arrondies



Référence	Acier/alliage	Description	A mm	inch	B mm	inch	L mm	inch	Option	Prix (CHF)
0109-2A-PO	Dumostar®	Polie	0.20	0.0079	1.50	0.0591	120	4.7280		28.55*
0302-2A-CO	Inox 02	Revêt. Epoxy	0.20	0.0079	1.50	0.0591	120	4.7280		24.70
0302-2A-PO	Inox 02	Polie	0.20	0.0079	1.50	0.0591	120	4.7280		22.70
0103-2A-PO	Dumoxel®	Polie	0.20	0.0079	1.50	0.0591	120	4.7280		24.40
0102-2A-PO	Inox 02	Polie	0.20	0.0079	1.50	0.0591	120	4.7280		26.80
0304-2A-CO	Antimagn.	Revêt. Epoxy	0.20	0.0079	1.50	0.0591	120	4.7280		19.60
0304-2A-PO	Antimagn.	Polie	0.20	0.0079	1.50	0.0591	120	4.7280		17.00
0304-2A-TF	Antimagn.	Teflon coated	0.20	0.0079	1.50	0.0591	120	4.7280	TCO	27.60

TCO=Pointes revêtues

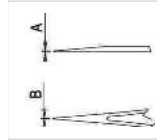
\* Taxe Dumostar® incluse

© Manufactures d'Outils Dumont SA  
Photos non contractuelles. Sous réserve de modifications,  
TVA 7,7% non comprise

**PECAUT**  
ENTREPRISE TECHNIQUE  
Depuis 1964

## 3

Pointes fines

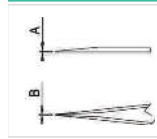


Référence	Acier/alliage	Description	A mm	inch	B mm	inch	L mm	inch	Option	Prix (CHF)
0106-3-PO	Laiton	Polie	0.10	0.0039	0.17	0.0067	120	4.7280		26.00
0101-3-PO	Carbone	Polie	0.08	0.0032	0.13	0.0051	120	4.7280		27.60
0103-3-PO	Dumoxel®	Polie	0.10	0.0039	0.17	0.0067	120	4.7280		27.80
0109-3-PO	Dumostar®	Polie	0.10	0.0039	0.17	0.0067	120	4.7280		28.55*
0102-3-PO	Inox 02	Polie	0.10	0.0039	0.17	0.0067	120	4.7280		26.80
0107-3TI-PO	Titane	Polie	0.10	0.0039	0.17	0.0067	120	4.7280		31.90
0302-3-CO	Inox 02	Revêt. Epoxy	0.10	0.0039	0.17	0.0067	120	4.7280		26.80
0302-3-PO	Inox 02	Polie	0.10	0.0039	0.17	0.0067	120	4.7280		21.60
0303-3-PO	Dumoxel®	Polie	0.10	0.0039	0.17	0.0067	120	4.7280		20.60
0304-3-CO	Antimagn.	Revêt. Epoxy	0.10	0.0039	0.17	0.0067	120	4.7280		20.60
0304-3-PO	Antimagn.	Polie	0.10	0.0039	0.17	0.0067	120	4.7280		19.60
0304-3-TF	Antimagn.	Teflon coated	0.10	0.0039	0.17	0.0067	120	4.7280	TCO	27.60

TCO=Pointes revêtues

## 3AM

Pointes fines. En laiton, revêtues d'un flash d'or.



Référence	Acier/alliage	Description	A mm	inch	B mm	inch	L mm	inch	Prix (CHF)
5306-3AM-PS	Laiton	Matte	0.10	0.0039	0.17	0.0067	120	4.7280	32.90

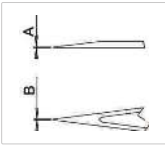
\* Taxe Dumostar® incluse

PECAUT Entreprise Technique SA  
Rue du Puits-Godet 10  
CH-2002 Neuchâtel  
Suisse

Tél. +41 032 710 14 14  
Fax +41 032 710 14 13  
Email info@pecaut.com  
Web www.pecaut.com

## 3C

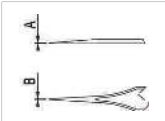
### Type 3 court, pointes fines



Référence	Acier/alliage	Description	A mm	Inch	B mm	Inch	L mm	Inch	Prix (CHF)
0101-3C-PO	Carbone	Polie	0.08	0.0032	0.13	0.0051	110	4.3340	26.60
0109-3C-PO	Dumostar®	Polie	0.10	0.0039	0.17	0.0067	110	4.3340	28.70*
0302-3C-CO	Inox 02	Revêt. Epoxy	0.10	0.0039	0.17	0.0067	110	4.3340	24.70
0103-3C-PO	Dumoxel®	Polie	0.10	0.0039	0.17	0.0067	110	4.3340	27.80
0302-3C-PO	Inox 02	Polie	0.10	0.0039	0.17	0.0067	110	4.3340	23.70
0102-3C-PO	Inox 02	Polie	0.10	0.0039	0.17	0.0067	110	4.3340	24.70
0303-3C-PO	Dumoxel®	Polie	0.10	0.0039	0.17	0.0067	110	4.3340	20.60
0304-3C-CO	Antimagn.	Revêt. Epoxy	0.10	0.0039	0.17	0.0067	110	4.3340	23.70
0107-3CTI-PO	Titane	Polie	0.10	0.0039	0.17	0.0067	110	4.3340	33.00
0304-3C-PO	Antimagn.	Polie	0.10	0.0039	0.17	0.0067	110	4.3340	22.70

## 4

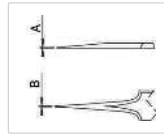
### Pointes extra fines, plus fortes que type 5



Référence	Acier/alliage	Description	A mm	Inch	B mm	Inch	L mm	Inch	Prix (CHF)
5306-4-PS	Laiton	Matte	0.08	0.0032	0.13	0.0051	110	4.3340	31.00
0101-4-PO	Carbone	Polie	0.06	0.0024	0.10	0.0039	110	4.3340	27.80
0109-4-PO	Dumostar®	Polie	0.08	0.0032	0.13	0.0051	110	4.3340	28.55*
0103-4-PO	Dumoxel®	Polie	0.08	0.0032	0.13	0.0051	110	4.3340	25.80
0302-4-PO	Inox 02	Polie	0.08	0.0032	0.13	0.0051	110	4.3340	21.20
0303-4-PO	Dumoxel®	Polie	0.08	0.0032	0.13	0.0051	110	4.3340	20.20
0102-4-PO	Inox 02	Polie	0.08	0.0032	0.13	0.0051	110	4.3340	25.80
0304-4-PO	Antimagn.	Polie	0.08	0.0032	0.13	0.0051	110	4.3340	20.20

## 5

### Pointes super fines

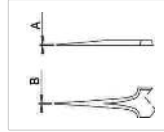


Référence	Acier/alliage	Description	A mm	Inch	B mm	Inch	L mm	Inch	Option	Prix (CHF)
0101-5-PO	Carbone	Polie	0.04	0.0016	0.08	0.0032	110	4.3340		29.90
0103-5-PO	Dumoxel®	Polie	0.06	0.0024	0.10	0.0039	110	4.3340		26.80
0302-5-CO	Inox 02	Revêt. Epoxy	0.06	0.0024	0.10	0.0039	110	4.3340		23.70
0302-5-PO	Inox 02	Polie	0.06	0.0024	0.10	0.0039	110	4.3340		21.20
0109-5-PO	Dumostar®	Polie	0.06	0.0024	0.10	0.0039	110	4.3340		30.30*
0303-5-PO	Dumoxel®	Polie	0.06	0.0024	0.10	0.0039	110	4.3340		20.20
0304-5-PO	Antimagn.	Polie	0.06	0.0024	0.10	0.0039	110	4.3340		20.20
0304-5-TF	Antimagn.	Teflon coated	0.06	0.0024	0.10	0.0039	110	4.3340	TCO	27.60

TCO=Pointes revêtues

## N5

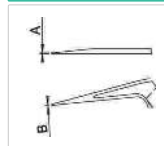
### Type 5, pointes super fines



Référence	Acier/alliage	Description	A mm	Inch	B mm	Inch	L mm	Inch	Prix (CHF)
0103-N5-PO	Dumoxel®	Polie	0.06	0.0024	0.10	0.0039	108	4.2552	29.90
0102-N5-PO	Inox 02	Polie	0.06	0.0024	0.10	0.0039	108	4.2552	33.00
0304-N5-PO	Antimagn.	Polie	0.06	0.0024	0.10	0.0039	108	4.2552	27.80

## 5A

### Pointes obliques. Pour travail sous binoculaire.



Référence	Acier/alliage	Description	A mm	Inch	B mm	Inch	L mm	Inch	Prix (CHF)
0109-5A-PO	Dumostar®	Polie	0.08	0.0032	0.13	0.0051	115	4.5310	29.25*
0103-5A-PO	Dumoxel®	Polie	0.08	0.0032	0.13	0.0051	115	4.5310	26.80
0108-5A-PO	Inox 08	Polie	0.08	0.0032	0.13	0.0051	115	4.5310	26.60

\* Taxe Dumostar® incluse

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TVA 7.7% non comprise

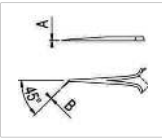
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ENTREPRISE TECHNIQUE  
Depuis 1964

PECAUT Entreprise Technique SA  
Rue du Puits-Godet 10  
CH-2002 Neuchâtel  
Suisse

Tél. +41 032 710 14 14  
Fax +41 032 710 14 13  
Email info@pecaut.com  
Web www.pecaut.com

## 5/45

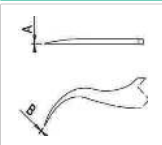
### Pointes fines, pliées à 45°



Référence	Acier/alliage	Description	A mm	inch	B mm	inch	L mm	inch	Prix (CHF)
0103-5/45-PO	Dumoxel®	Polie	0.06	0.0024	0.10	0.0039	109	4.2946	29.90
0108-5/45-PO	Inox 08	Polie	0.06	0.0024	0.10	0.0039	109	4.2946	31.90

## 7

### Pointes faucille, fines



Référence	Acier/alliage	Description	A mm	inch	B mm	inch	L mm	inch	Prix (CHF)
0101-7-PO	Carbone	Polie	0.08	0.0032	0.13	0.0051	115	4.5310	30.90
0302-7-CO	Inox 02	Revêt. Epoxy	0.10	0.0039	0.17	0.0067	115	4.5310	26.80
0109-7-PO	Dumostar®	Polie	0.10	0.0039	0.17	0.0067	115	4.5310	31.10*
0103-7-PO	Dumoxel®	Polie	0.10	0.0039	0.17	0.0067	115	4.5310	28.80
0302-7-PO	Inox 02	Polie	0.10	0.0039	0.17	0.0067	115	4.5310	23.70
0303-7-PO	Dumoxel®	Polie	0.10	0.0039	0.17	0.0067	115	4.5310	24.70
0102-7-PO	Inox 02	Polie	0.10	0.0039	0.17	0.0067	115	4.5310	28.80
0107-7TI-PO	Titane	Polie	0.10	0.0039	0.17	0.0067	115	4.5310	38.10
0304-7-PO	Antimagn.	Polie	0.10	0.0039	0.17	0.0067	115	4.5310	20.20

## 7A

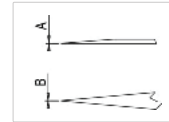
### Pointes faucille, fortes



Référence	Acier/alliage	Description	A mm	inch	B mm	inch	L mm	inch	Prix (CHF)
0103-7A-PO	Dumoxel®	Polie	0.16	0.0063	0.24	0.0095	115	4.5310	29.90

## 11

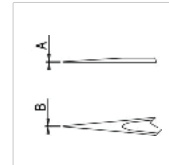
### Pointes fortes, idéal pour manipuler des pièces délicates



Référence	Acier/alliage	Description	A mm	inch	B mm	inch	L mm	inch	Prix (CHF)
0105-11NI-PO	Nickel	Polie	0.14	0.0055	0.24	0.0095	120	4.7280	24.40

## 12

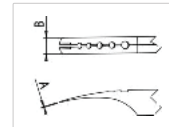
### Pointes fines, idéal pour manipuler des pièces délicates



Référence	Acier/alliage	Description	A mm	inch	B mm	inch	L mm	inch	Prix (CHF)
0105-12NI-PO	Nickel	Polie	0.10	0.0039	0.17	0.0067	120	4.7280	24.70

## 14

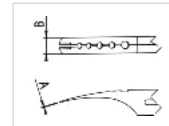
### Pour enlever, poser et tenir les aiguilles



Référence	Acier/alliage	Description	A mm	inch	B mm	inch	L mm	inch	Prix (CHF)
0101-14-PO	Carbone	Polie	0.30	0.0118	5.00	0.1970	110	4.3340	173.30

## 14A

### Pour enlever, poser et tenir les aiguilles, avec vis de fermeture



Référence	Acier/alliage	Description	A mm	inch	B mm	inch	L mm	inch	Prix (CHF)
0101-14A-PO	Carbone	Polie	0.30	0.0118	5.00	0.1970	125	4.9250	182.10
0102-14A-PO	Inox 02	Polie	0.30	0.0118	5.00	0.1970	125	4.9250	187.80

\* Taxe Dumostar® incluse

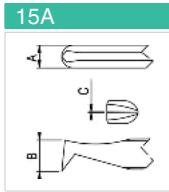
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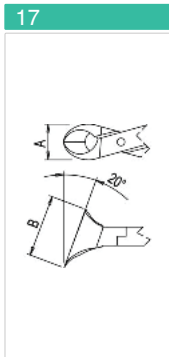
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Fax +41 032 710 14 13  
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Pour couper fils ou autres



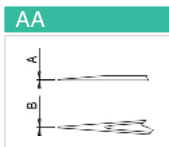
Référence	Acier/alliage	Description	A mm	inch	B mm	inch	C mm	inch	L mm	inch	Prix (CHF)
0101-15A-PO	Carbone	Polie	8.50	0.3349	10.50	0.4137	0.20	0.0079	115	4.5310	61.80



Tête inclinée, branches droites, pour spiraux



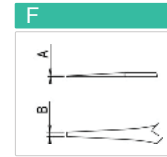
Référence	Acier/alliage	Description	A mm	inch	B mm	inch	L mm	inch	Prix (CHF)
0101-17-PO	Carbone	Polie	10.50	0.4137	19.30	0.7604	110	4.3340	289.70



Pointes fortes



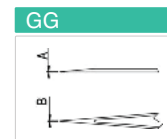
Référence	Acier/alliage	Description	A mm	inch	B mm	inch	L mm	inch	Prix (CHF)
0103-AA-PO	Dumoxel®	Polie	0.20	0.0079	0.40	0.0158	125	4.9250	24.40
0302-AA-PO	Inox 02	Polie	0.20	0.0079	0.40	0.0158	125	4.9250	20.60
0102-AA-PO	Inox 02	Polie	0.20	0.0079	0.40	0.0158	125	4.9250	23.40
0304-AA-CO	Antimagn.	Revêt. Epoxy	0.20	0.0079	0.40	0.0158	125	4.9250	19.10



Pointes larges, carrées



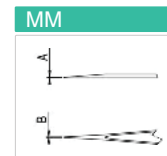
Référence	Acier/alliage	Description	A mm	inch	B mm	inch	L mm	inch	Prix (CHF)
0101-F-PO	Carbone	Polie	0.20	0.0079	2.00	0.0788	120	4.7280	26.60
0103-F-PO	Dumoxel®	Polie	0.20	0.0079	2.00	0.0788	120	4.7280	24.40
0102-F-PO	Inox 02	Polie	0.20	0.0079	2.00	0.0788	120	4.7280	25.80



Pointes fortes



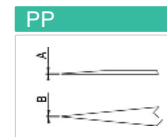
Référence	Acier/alliage	Description	A mm	inch	B mm	inch	L mm	inch	Prix (CHF)
0302-GG-CO	Inox 02	Revêt. Epoxy	0.12	0.0047	0.20	0.0079	130	5.1220	29.00
0302-GG-PO	Inox 02	Polie	0.12	0.0047	0.20	0.0079	130	5.1220	27.80
0304-GG-PO	Antimagn.	Polie	0.12	0.0047	0.20	0.0079	130	5.1220	24.70



Brucelles d'assemblage



Référence	Acier/alliage	Description	A mm	inch	B mm	inch	L mm	inch	Prix (CHF)
0302-MM-CO	Inox 02	Revêt. Epoxy	0.22	0.0087	0.26	0.0102	127	5.0038	23.70
0304-MM-PO	Antimagn.	Polie	0.22	0.0087	0.26	0.0102	127	5.0038	19.60
0302-MM-PO	Inox 02	Polie	0.22	0.0087	0.26	0.0102	127	5.0038	23.70



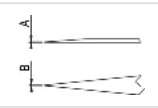
Pointes fortes



Référence	Acier/alliage	Description	A mm	inch	B mm	inch	L mm	inch	Prix (CHF)
0101-PP-PO	Carbone	Polie	0.12	0.0047	0.20	0.0079	135	5.3190	23.70
0302-PP-PO	Inox 02	Polie	0.14	0.0055	0.24	0.0095	135	5.3190	20.60
0103-PP-PO	Dumoxel®	Polie	0.14	0.0055	0.24	0.0095	135	5.3190	26.80
0304-PP-PO	Antimagn.	Polie	0.14	0.0055	0.24	0.0095	135	5.3190	23.70

## P

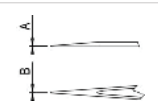
### Pointes fortes



Référence	Acier/alliage	Description	A mm	inch	B mm	inch	L mm	inch	Prix (CHF)
0101-P-PO	Carbone	Polie	0.12	0.0047	0.20	0.0079	120	4.7280	29.90
0103-P-PO	Dumoxel®	Polie	0.14	0.0055	0.24	0.0095	120	4.7280	24.40
0302-P-PO	Inox 02	Polie	0.14	0.0055	0.24	0.0095	120	4.7280	23.70

## S5

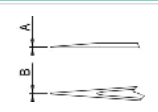
### Longue brucelle populaire pour manipuler des pièces délicates



Référence	Acier/alliage	Description	A mm	inch	B mm	inch	L mm	inch	Prix (CHF)
5306-S5-PO	Laiton	Polie	0.3	0.0118	0.2	0.0079	130	5.1220	22.60
5305-S5-PO	Nickel	Polie	0.3	0.0118	0.2	0.0079	130	5.1220	24.40

## SS135

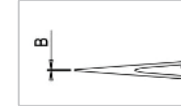
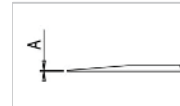
### Corps long et étroit, pointes fines



Référence	Acier/alliage	Description	A mm	inch	B mm	inch	L mm	inch	Prix (CHF)
0302-SS135-CO	Inox 02	Revêt. Epoxy	0.12	0.0047	0.20	0.0079	135	5.3190	26.00
0101-SS135-PO	Carbone	Polie	0.10	0.0039	0.14	0.0055	135	5.3190	25.40
0302-SS135-PO	Inox 02	Polie	0.12	0.0047	0.20	0.0079	135	5.3190	21.20
0304-SS135-PO	Antimagn.	Polie	0.12	0.0047	0.20	0.0079	135	5.3190	20.20
0102-SS135-PO	Inox 02	Polie	0.12	0.0047	0.20	0.0079	135	5.3190	26.60

## SS140

### Corps long et étroit, pointes fines

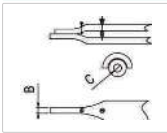


Référence	Acier/alliage	Description	A mm	inch	B mm	inch	L mm	inch	Prix (CHF)
0109-SS140-PO	Dumostar®	Polie	0.12	0.0047	0.20	0.0079	140	5.5160	31.10*
0103-SS140-PO	Dumoxel®	Polie	0.12	0.0047	0.20	0.0079	140	5.5160	25.40
0102-SS140-PO	Inox 02	Polie	0.12	0.0047	0.20	0.0079	140	5.5160	26.60
0107-SS140TI-PO	Titane	Polie	0.12	0.0047	0.20	0.0079	140	5.5160	36.10
0304-SS140-CO	Antimagn.	Revêt. Epoxy	0.12	0.0047	0.20	0.0079	140	5.5160	20.60

\* Taxe Dumostar® incluse

9/0

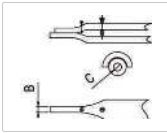
Pour couder les spiraux Breguet, grandeur 0



Référence	Acier/alliage	Description	B mm	inch	C mm	inch	L mm	inch	Prix (CHF)
0101-9/0-PO	Carbone	Polie	1.70	0.0670	R 0.65	0.0256	110	4.3340	211.20

9/00

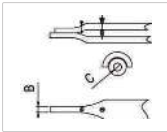
Pour couder les spiraux Breguet, grandeur 00



Référence	Acier/alliage	Description	B mm	inch	C mm	inch	L mm	inch	Prix (CHF)
0101-9/00-PO	Carbone	Polie	1.50	0.0591	R 0.55	0.0217	110	4.3340	218.60

9/1

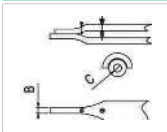
Pour couder les spiraux Breguet, grandeur 1



Référence	Acier/alliage	Description	B mm	inch	C mm	inch	L mm	inch	Prix (CHF)
0101-9/1-PO	Carbone	Polie	1.90	0.0749	R 0.75	0.0296	110	4.3340	211.20

9/2

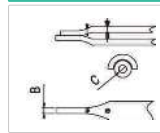
Pour couder les spiraux Breguet, grandeur 2



Référence	Acier/alliage	Description	B mm	inch	C mm	inch	L mm	inch	Prix (CHF)
0101-9/2-PO	Carbone	Polie	2.30	0.0906	R 0.95	0.0374	110	4.3340	211.20

9/3

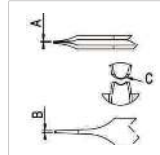
Pour couder les spiraux Breguet, grandeur 3



Référence	Acier/alliage	Description	B mm	inch	C mm	inch	L mm	inch	Prix (CHF)
0101-9/3-PO	Carbone	Polie	2.60	0.1024	R 1.10	0.0433	110	4.3340	211.20

10/0

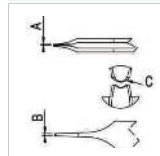
Pour courber les spiraux Breguet, grandeur 0



Référence	Acier/alliage	Description	A mm	inch	B mm	inch	C mm	inch	L mm	inch	Prix (CHF)
0101-10/0-PO	Carbone	Polie	0.40	0.0158	0.90	0.0355	R 0.40	0.0158	110	4.3340	109.30

10/00

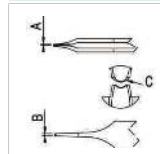
Pour courber les spiraux Breguet, grandeur 00



Référence	Acier/alliage	Description	A mm	inch	B mm	inch	C mm	inch	L mm	inch	Prix (CHF)
0101-10/00-PO	Carbone	Polie	0.30	0.0118	0.60	0.0236	R 0.32	0.0126	110	4.3340	109.30

10/000

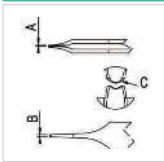
Pour courber les spiraux Breguet, grandeur 000



Référence	Acier/alliage	Description	A mm	inch	B mm	inch	C mm	inch	D mm	inch	L mm	inch	Prix (CHF)
0101-10/000-PO	Carbone	Polie	0.2	0.0079	0.40	0.0158	R 0.25	0.0099	138	0.0000	110	4.3340	118.90

10/1

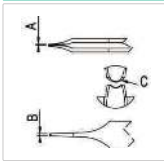
Pour courber les spiraux Breguet, grandeur 1



Référence	Acier/alliage	Description	A mm	inch	B mm	inch	C mm	inch	L mm	inch	Prix (CHF)
0101-10/1-PO	Carbone	Polie	0.5	0.0197	1.20	0.0473	R 0.60	0.0236	110	4.3340	109.30

10/2

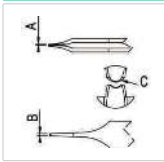
Pour courber les spiraux Breguet, grandeur 2



Référence	Acier/alliage	Description	A mm	inch	B mm	inch	C mm	inch	L mm	inch	Prix (CHF)
0101-10/2-PO	Carbone	Polie	0.6	0.0236	1.40	0.0552	R 0.70	0.0276	110	4.3340	110.80

10/3

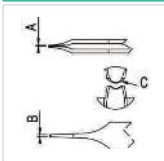
Pour courber les spiraux Breguet, grandeur 3



Référence	Acier/alliage	Description	A mm	inch	B mm	inch	C mm	inch	L mm	inch	Prix (CHF)
0101-10/3-PO	Carbone	Polie	0.7	0.0276	1.70	0.0670	R 0.90	0.0355	110	4.3340	109.30

10/4

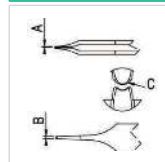
Pour courber les spiraux Breguet, grandeur 4



Référence	Acier/alliage	Description	A mm	inch	B mm	inch	C mm	inch	L mm	inch	Prix (CHF)
0101-10/4-PO	Carbone	Polie	0.8	0.0315	2.00	0.0788	R 1.00	0.0394	110	4.3340	109.30

10/5

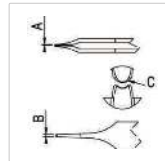
Pour courber les spiraux Breguet, grandeur 5



Référence	Acier/alliage	Description	A mm	inch	B mm	inch	C mm	inch	L mm	inch	Prix (CHF)
0101-10/5-PO	Carbone	Polie	0.9	0.0355	2.20	0.0867	R 1.10	0.0433	110	4.3340	109.30
0102-10/5-PO	Inox 02	Polie	0.9	0.0355	2.20	0.0867	R 1.10	0.0433	110	4.3340	109.30

10/6

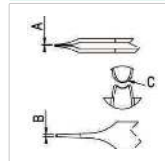
Pour courber les spiraux Breguet, grandeur 6



Référence	Acier/alliage	Description	A mm	inch	B mm	inch	C mm	inch	L mm	inch	Prix (CHF)
0101-10/6-PO	Carbone	Polie	1	0.0394	2.40	0.0946	R 1.25	0.0493	110	4.3340	109.30

10/7

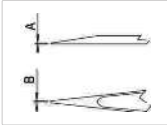
Pour courber les spiraux Breguet, grandeur 7



Référence	Acier/alliage	Description	A mm	inch	B mm	inch	C mm	inch	L mm	inch	Prix (CHF)
0101-10/7-PO	Carbone	Polie	1.1	0.0433	2.60	0.1024	R 1.35	0.0532	110	4.3340	109.30

## 00 SA ESD

Forme Genève, pointes solides, corps épais



Référence	Acier/alliage	Description	A mm	inch	B mm	inch	L mm	inch	ESD	Prix (CHF)
0304-00SAESD-CO	Antimagn.	Revêt. Epoxy	0.25	0.0099	0.45	0.0177	115	4.5310	Oui	21.60

## 2 SA ESD

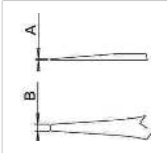
Pointes fortes



Référence	Acier/alliage	Description	A mm	inch	B mm	inch	L mm	inch	ESD	Prix (CHF)
0304-2SAESD-CO	Antimagn.	Revêt. Epoxy	0.14	0.0055	0.34	0.0134	120	4.7280	Oui	18.50

## 2A SA ESD

Pointes plates arrondies



Référence	Acier/alliage	Description	A mm	inch	B mm	inch	L mm	inch	ESD	Prix (CHF)
0304-2ASAESD-CO	Antimagn.	Revêt. Epoxy	0.20	0.0079	1.50	0.0591	120	4.7280	Oui	20.60

## 3 SA ESD

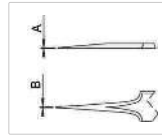
Pointes fines



Référence	Acier/alliage	Description	A mm	inch	B mm	inch	L mm	inch	ESD	Prix (CHF)
0304-3SAESD-CO	Antimagn.	Revêt. Epoxy	0.10	0.0039	0.17	0.0067	120	4.7280	Oui	20.60

## 5 SA ESD

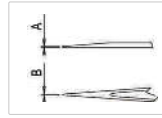
Pointes super fines



Référence	Acier/alliage	Description	A mm	inch	B mm	inch	L mm	inch	ESD	Prix (CHF)
0304-5SAESD-CO	Antimagn.	Revêt. Epoxy	0.06	0.0024	0.10	0.0039	110	4.3340	Oui	20.20

## AA SA ESD

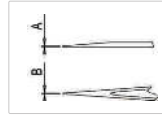
Pointes fortes



Référence	Acier/alliage	Description	A mm	inch	B mm	inch	L mm	inch	ESD	Prix (CHF)
0304-AASAESD-CO	Antimagn.	Revêt. Epoxy	0.20	0.0079	0.40	0.0158	125	4.9250	Oui	18.00

## SS SA ESD

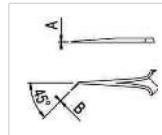
Corps long et étroit, pointes fines



Référence	Acier/alliage	Description	A mm	inch	B mm	inch	L mm	inch	ESD	Prix (CHF)
0304-SSSAESD-CO	Antimagn.	Revêt. Epoxy	0.12	0.0047	0.20	0.0079	135	5.3190	Oui	20.20

## 5/45 SA ESD

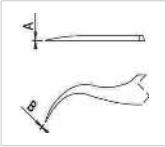
Pointes fines, pliées à 45°



Référence	Acier/alliage	Description	A mm	inch	B mm	inch	L mm	inch	ESD	Prix (CHF)
0304-5/45SAESD-CO	Antimagn.	Revêt. Epoxy	0.06	0.0024	0.1	0.0039	109	4.2946	Oui	24.70

## 7 SA ESD

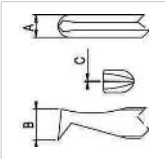
Pointes faucille, fines



Référence	Acier/alliage	Description	A mm	inch	B mm	inch	L mm	inch	ESD	Prix (CHF)
0304-7SAESD-CO	Antimagn.	Revêt. Epoxy	0.1	0.0039	0.17	0.0067	115	4.5310	Oui	22.70

## 15A ESD

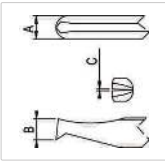
Pour couper fils ou autres



Référence	Acier/alliage	Description	A mm	inch	B mm	inch	C mm	inch	L mm	inch	ESD	Prix (CHF)
0301-15AESD-CO	Carbone	Revêt. Epoxy	8.5	0.3349	10.5	0.4137	0.2	0.0079	115	4.5310	Oui	47.40

## 15AC ESD

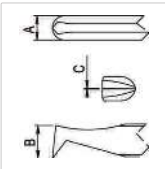
Type 15A, tête courte, pour couper divers fils ou autres



Référence	Acier/alliage	Description	A mm	inch	B mm	inch	C mm	inch	L mm	inch	ESD	Prix (CHF)
0301-15ACESD-CO	Carbone	Revêt. Epoxy	5.50	0.2167	7.00	0.2758	0.20	0.0079	115	4.5310	Oui	38.10

## 15AGW ESD

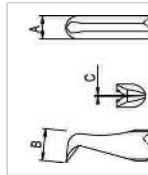
Pour couper divers fils. Très populaire en électronique



Référence	Acier/alliage	Description	A mm	inch	B mm	inch	C mm	inch	L mm	inch	ESD	Prix (CHF)
0301-15AGWESD-C	Carbone	Revêt. Epoxy	5.50	0.2167	9.50	0.3743	0.2	0.0079	115	4.5310	Oui	43.30

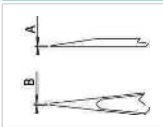
## 15ARW ESD

Pour couper divers fils. Très populaire en électronique



Référence	Acier/alliage	Description	A mm	inch	B mm	inch	L mm	inch	ESD	Prix (CHF)		
0301-15ARWESD-CO	Carbone	Revêt. Epoxy	5.50	0.2167	9.50	0.3743	0.2	0.0079	115	4.5310	Oui	45.30

## 00 SA ESD

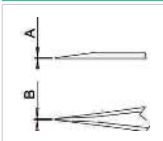


### Brucelles type 00 avec gaine ergonomique ESD



Référence	Acier/alliage	Coul. gaine	Description	A mm	inch	B mm	inch	L mm	inch	ESD	Prix (CHF)
0304-00SAESD-ET1	Antimagn.	Rouge	Polie	0.25	0.0099	0.45	0.0177	115	4.5310	Oui	21.60
0304-00SAESD-ET2	Antimagn.	Noire	Polie	0.25	0.0099	0.45	0.0177	115	4.5310	Oui	21.60

## 2 SA ESD

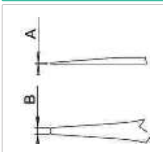


### Brucelles type 2 avec gaine ergonomique ESD



Référence	Acier/alliage	Coul. gaine	Description	A mm	inch	B mm	inch	L mm	inch	ESD	Prix (CHF)
0304-2SAESD-ET1	Antimagn.	Rouge	Polie	0.14	0.0055	0.34	0.0134	120	4.7280	Oui	19.10
0304-2SAESD-ET2	Antimagn.	Noire	Polie	0.14	0.0055	0.34	0.0134	120	4.7280	Oui	19.10

## 2A SA ESD

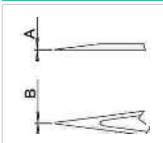


### Brucelles type 2A avec gaine ergonomique ESD



Référence	Acier/alliage	Coul. gaine	Description	A mm	inch	B mm	inch	L mm	inch	ESD	Prix (CHF)
0304-2ASAESD-ET1	Antimagn.	Rouge	Polie	0.20	0.0079	1.50	0.0591	120	4.7280	Oui	20.60
0304-2ASAESD-ET2	Antimagn.	Noire	Polie	0.20	0.0079	1.50	0.0591	120	4.7280	Oui	20.60

## 3 SA ESD

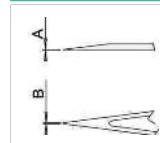


### Brucelles type 3 avec gaine ergonomique ESD



Référence	Acier/alliage	Coul. gaine	Description	A mm	inch	B mm	inch	L mm	inch	ESD	Prix (CHF)
0304-3SAESD-ET1	Antimagn.	Rouge	Polie	0.10	0.0039	0.17	0.0067	120	4.7280	Oui	20.60
0304-3SAESD-ET2	Antimagn.	Noire	Polie	0.10	0.0039	0.17	0.0067	120	4.7280	Oui	20.60

## 3C SA ESD

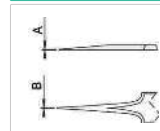


### Brucelles type 3C avec gaine ergonomique ESD



Référence	Acier/alliage	Coul. gaine	Description	A mm	inch	B mm	inch	L mm	inch	ESD	Prix (CHF)
0304-3CSAESD-ET1	Antimagn.	Rouge	Polie	0.10	0.0039	0.17	0.0067	110	4.3340	Oui	22.70
0304-3CSAESD-ET2	Antimagn.	Noire	Polie	0.10	0.0039	0.17	0.0067	110	4.3340	Oui	22.70

## 5 SA ESD

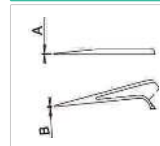


### Brucelles type 5 avec gaine ergonomique ESD



Référence	Acier/alliage	Coul. gaine	Description	A mm	inch	B mm	inch	L mm	inch	ESD	Prix (CHF)
0304-5SAESD-ET1	Antimagn.	Rouge	Polie	0.06	0.0024	0.10	0.0039	110	4.3340	Oui	20.20
0304-5SAESD-ET2	Antimagn.	Noire	Polie	0.06	0.0024	0.10	0.0039	110	4.3340	Oui	20.20

## 5A SA ESD

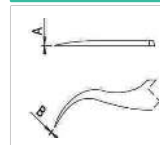


### Brucelles type 5A avec gaine ergonomique ESD



Référence	Acier/alliage	Coul. gaine	Description	A mm	inch	B mm	inch	L mm	inch	ESD	Prix (CHF)
0304-5ASAESD-ET1	Antimagn.	Rouge	Polie	0.08	0.0032	0.13	0.0051	115	4.5310	Oui	19.10
0304-5ASAESD-ET2	Antimagn.	Noire	Polie	0.08	0.0032	0.13	0.0051	115	4.5310	Oui	19.10

## 7 SA ESD



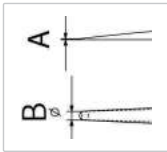
### Brucelles type 7 avec gaine ergonomique ESD



Référence	Acier/alliage	Coul. gaine	Description	A mm	inch	B mm	inch	L mm	inch	ESD	Prix (CHF)
0304-7SAESD-ET1	Antimagn.	Rouge	Polie	0.10	0.0039	0.17	0.0067	115	4.5310	Oui	22.70
0304-7SAESD-ET2	Antimagn.	Noire	Polie	0.10	0.0039	0.17	0.0067	115	4.5310	Oui	22.70

F SA ESD

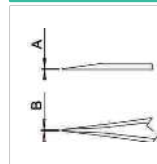
Brucelles type F avec gaine ergonomique ESD



Référence	Acier/alliage	Description	A mm	inch	B mm	inch	L mm	inch	ESD	Prix (CHF)	
0304-FSAESD-ET1	Antimagn.	Rouge	Polie	0.20	0.0079	2.00	0.0788	120	4.7280	Oui	21.20
0304-FSAESD-ET2	Antimagn.	Noire	Polie	0.20	0.0079	2.00	0.0788	120	4.7280	Oui	21.20

0 DC ESD

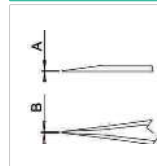
Brucelles avec pointes diamantées ESD. Type 0



Référence	Acier/alliage	Description	A mm	inch	B mm	inch	L mm	inch	ESD	Prix (CHF)
0304-0DCESD-SM	Antimagn.	Matte	0.10	0.0039	0.17	0.0067	115	4.5310	Oui	28.30

00 DC ESD

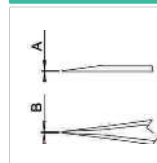
Brucelles avec pointes diamantées ESD. Type 00



Référence	Acier/alliage	Description	A mm	inch	B mm	inch	L mm	inch	ESD	Prix (CHF)
0304-00DCESD-SM	Antimagn.	Matte	0.25	0.0099	0.45	0.0177	115	4.5310	Oui	28.80

1 DC ESD

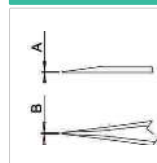
Brucelles avec pointes diamantées ESD. Type 1



Référence	Acier/alliage	Description	A mm	inch	B mm	inch	L mm	inch	ESD	Prix (CHF)
0304-1DCESD-SM	Antimagn.	Matte	0.12	0.0047	0.20	0.0079	120	4.7280	Oui	29.90

2 DC ESD

Brucelles avec pointes diamantées ESD. Type 2



Référence	Acier/alliage	Description	A mm	inch	B mm	inch	L mm	inch	ESD	Prix (CHF)
0304-2DCESD-SM	Antimagn.	Matte	0.14	0.0055	0.34	0.0134	120	4.7280	Oui	29.90

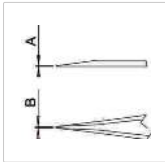
Preliminary data sheet

## BLACK ESD TIPS

- Polyamide (30% carbon fibre)
- Heat-stabilized
- Low electric resistivity
- Self-lubricating properties
- Very high rigidity
- High mechanical properties
- Very low coefficient of linear thermal expansion

### 2A DC ESD

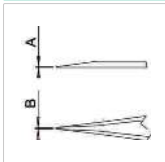
#### Brucelles avec pointes diamantées ESD. Type 2A



Référence	Acier/alliage	Description	A mm	inch	B mm	inch	L mm	inch	ESD	Prix (CHF)
0304-2ADCESD-SM	Antimagn.	Matte	0.20	0.0079	1.50	0.0591	120	4.7280	Oui	28.80

### 5 DC ESD

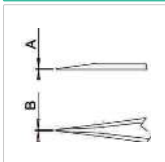
#### Brucelles avec pointes diamantées ESD. Type 5



Référence	Acier/alliage	Description	A mm	inch	B mm	inch	L mm	inch	ESD	Prix (CHF)
0304-5DCESD-SM	Antimagn.	Matte	0.06	0.0024	0.10	0.0039	110	4.3340	Oui	30.80

### 7 DC ESD

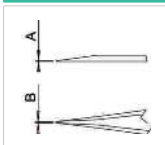
#### Brucelles avec pointes diamantées ESD. Type 7



Référence	Acier/alliage	Description	A mm	inch	B mm	inch	L mm	inch	ESD	Prix (CHF)
0304-7DCESD-SM	Antimagn.	Matte	0.10	0.0039	0.17	0.0067	115	4.5310	Oui	30.80

### SS DC ESD

#### Brucelles avec pointes diamantées ESD. Type SS



Référence	Acier/alliage	Description	A mm	inch	B mm	inch	L mm	inch	ESD	Prix (CHF)
0304-SSDCESD-SM	Antimagn.	Matte	0.12	0.0047	0.20	0.0079	135	5.3190	Oui	29.90

#### Mechanical properties

Flexural modulus +23°C:	17000 MPa	ASTM D 790
Flexural modulus +60°C:	12000 MPa	ASTM D 790
Flexural modulus +90°C:	9800 MPa	ASTM D 790
Flexural modulus +120°C:	8000 MPa	ASTM D 790
Tensile strength +23°C:	210 MPa	ISO 527
Tensile strength +60°C:	159 MPa	ISO 527
Tensile strength +90°C:	134 MPa	ISO 527
Tensile strength +120°C:	117 MPa	ISO 527
Rockwell hardness M:	>100	ASTM D 785
Izod - Impact strength (notched) +23°C:	70 J/m	ASTM D 256
Izod - Impact strength (notched) -20°C:	60 J/m	ASTM D 256
Izod - Impact strength (notched) -40°C:	55 J/m	ASTM D 256
Charpy - Impact strength (unnotched) +23°C:	30 kJ/m <sup>2</sup>	DIN 53453
Charpy - Impact strength (unnotched) -20°C:	19 kJ/m <sup>2</sup>	DIN 53453
Charpy - Impact strength (unnotched) -40°C:	16 kJ/m <sup>2</sup>	DIN 53453

#### Thermal properties

Temp. of defl. under load (1.80 MPa):	256 °C	ASTM D648
Temp. of defl. under load (0.45 MPa):	260 °C	ASTM D648
Vicat softening temperature (50°C/h 50N):	254 °C	ISO 306
Heat resistance - Ball test (125°C):	Y	IEC 335
Heat resistance - Ball test (165°C):	Y	IEC 335
Coef. of lin. therm expansion, normal:	-E-5/°C	ASTM D 696
Glow wire test - thicken. 2mm:	- °C	IEC 695-2-1
Glow wire test - thicken. 1mm:	- °C	IEC 695-2-1

#### Flame retardancy

Flammability at 1.6 mm nominal thickness:	HB class	UL94
Flammability (Thickness tested):	1,50 mm	
Flammability by Oxygen index:	28 %	ISO 4589
Needle burner test (1,47 mm):	N	
Needle burner test (3,05 mm):	N	

#### Electrical properties

Surface resistivity:	1,00E+02 Ohm	IEC 93
Comparative tracking index:	<100 Volts	IEC 112
Electric strength (2mm):	2,0 kV/mm	IEC 243-1

#### Other properties

Density:	1,28 g/ccm	ISO 1183
Water absorption in water at 23°C:	0,60 %	ISO 62

#### Examples of applications

Electronics devices, industrial and mechanical components, other sensitive parts, ...

Preliminary data sheet

## GREY STD TIPS

- Polyamide with carbon fiber reinforced
- Thermal stability
- Reduced moment of inertia compared with metal parts
- Low Warpage

### Physical Properties

		Test Method	Specimen	Units	Typical Value
Specific Gravity		ISO 1183	MPTS ISO 3167 A	g/cm <sup>3</sup>	1,25
Water Absorption	23 °C / 24 h		MPTS ISO 3167 A	%	<1,0
Melt Flow Rates	MFR	ISO 1133	pellet	g/10 Min	
Melt Volume Rate	MVR	ISO 1133	pellet	cm <sup>3</sup> /10 Min	
Linear Mould Shrinkage	VSR 3mm	DIN 16901	MPTS ISO 3167 A	%	0,2-0,5
Flamability Behaviour		UL 94	1/16"	-	

### Mechanical Properties – at 23°C/50% rh

		Test Method	Specimen	Units	Typical Value
Tensile Strength	σ <sub>Z</sub> M	ISO 527	MPTS ISO 3167 A	MPa	200
Elongation	ε <sub>Z</sub> M	ISO 527	MPTS ISO 3167 A	%	2,5
Modulus of Elasticity	Et	ISO 527	MPTS ISO 3167 A	GPa	15
Flexural Strength	σ <sub>b</sub> M	ISO 178	MPTS ISO 3167 A	MPa	260
Flexural Elongation	ε <sub>b</sub> M	ISO 178	MPTS ISO 3167 A	%	3,5
Flexural Modulus	E <sub>38</sub>	ISO 178	MPTS ISO 3167 A	GPa	12
Charpy Impact Strength		ISO 179 1 fu	MPTS ISO 3167 A	KJ/m <sup>2</sup>	40
Charpy Impact Strength	-30°C	ISO 179 1 fu	MPTS ISO 3167 A	KJ/m <sup>2</sup>	
Charpy Impact Strength notched		ISO 179 eA	MPTS ISO 3167 A	KJ/m <sup>2</sup>	
Charpy Impact Strength notched	-30°C	ISO 179 eA	MPTS ISO 3167 A	KJ/m <sup>2</sup>	

### Thermal Properties

		Test Method	Specimen	Units	Typical Value
Vicat Softening Temp.	VST A	DIN ISO 306	MPTS ISO 3167 A	°C	250
Heat Distortion Temp.	HDT A	ISO 75	MPTS ISO 3167 A	°C	
Continuous Service Temp.		UL 746B	MPTS ISO 3167 A	°C	90
Maximum (short term) Use Temp.				°C	150
Coefficient of Thermal Expansion		DIN 53752		10 <sup>-5</sup> /K	
Thermal Conductivity		DIN 52612		W/mK	

### Electrical Properties

		Test Method	Specimen	Units	Typical Value
Insulation Resistance	Strip electrode	R <sub>25</sub> DIN/IEC 60167	MPTS ISO 3167 A	Ω	≥10 <sup>7</sup>
Surface Resistance		R <sub>08</sub> DIN/IEC 60093	Ronde 60x4 mm	Ω	<10 <sup>3</sup>

### Tribological Properties

		Test Method	Specimen	Units	Typical Value
Coeff. of Friction μ	dynamic 15Hz 21N	DIN 51834	MPTS ISO 3167	N/N	
Coeff. of Friction μ	40mm/s 21N	LuV	MPTS ISO 3167	N/N	
				7404	3 02 06

### Examples of applications

Automotive industry, textile- and office machinery, apparatus- and precision engineering, ...

## DIAMOND LIKE CARBON (DLC) COATING

### General

This coating (DLC) is based on pure carbon. Due to their tetrahedral structure it acquire the properties of a diamond. The quota of the sp<sup>3</sup>-configured carbon lies around 80-95%, which is the reason for the high quota of diamond structure. Furthermore, due to its procedure, this coating is completely free of hydrogen. The thereby obtained structure endows the coatings with the following properties:

- ▶ Extreme hardness of about 5'300 HV (twice as hard as other DLC layers)
- ▶ Utmost wear resistance (around two times compared to other DLC layers)
- ▶ Very low friction coefficient
- ▶ Perfect adherence, thanks to a special intermediate layer
- ▶ 100% biological compatibility
- ▶ Chemical stability and corrosion resistant

Through their properties this coating is clearly stand out compared to conventional coatings: considerably reduced friction and extreme hardness, the performance and life span of tools and components are increased by many times as well.

### Mechanical & Physical properties

Process	PVD Arc
Composition (C:H)	100:0
Structure	amorphous
sp <sup>3</sup> fraction	85-95
Temperature of deposition (°C)	< 100
Color	clear to black
Thickness (μm)	0.05-3
Density (g/cm <sup>3</sup> )	2.9-3
Max. operating temperature (°C)	500
Transparency (μm)	1
Hardness (Gpa)	85-95
Hardness HV 0.05	5300
Adhesion	optimal
Biocompatibility	optimal
Friction coefficient	0.1
Electric resistivity (μΩcm)	10 <sup>7</sup> -10 <sup>9</sup>
Refraction index	2.4
Deposition rate (μm/h)	< 2

The above information is, to the best of our knowledge, true and accurate, but any recommendations or suggestions which may be made are without guarantee, since the conditions of use are beyond our control.

## WHITE DELRIN TIPS

- 30 % glass fibre
- High stability
- High rigidity
- Low water absorption

### Mechanical properties

Flexural modulus +23°C:	8000 MPa	ASTM D 790
Flexural modulus +60°C:	5700 MPa	ASTM D 790
Flexural modulus +90°C:	4500 MPa	ASTM D 790
Flexural modulus +120°C:	3800 MPa	ASTM D 790
Tensile strength +23°C:	83 MPa	ISO 527
Tensile strength +60°C:	60 MPa	ISO 527
Tensile strength +90°C:	53 MPa	ISO 527
Tensile strength +120°C:	45 MPa	ISO 527
Rockwell hardness M:	85	ASTM D 785
Izod - Impact strength (notched) +23°C:	55 J/m	ASTM D 256
Izod - Impact strength (notched) -20°C:	55 J/m	ASTM D 256
Izod - Impact strength (notched) -40°C:	55 J/m	ASTM D 256
Charpy - Impact strength (unnotched) +23°C:	20 kJ/m <sup>2</sup>	DIN 53453
Charpy - Impact strength (unnotched) -20°C:	18 kJ/m <sup>2</sup>	DIN 53453
Charpy - Impact strength (unnotched) -40°C:	18 kJ/m <sup>2</sup>	DIN 53453

### Thermal properties

Temp. of defl. under load (1.80 MPa):	162 °C	ASTM D648
Temp. of defl. under load (0.45 MPa):	165 °C	ASTM D648
Vicat softening temperature (50°C/h 50N):	156 °C	ISO 306
Heat resistance - Ball test (125°C):	Y	IEC 335
Heat resistance - Ball test (165°C):	N	IEC 335
Coef. of lin. therm expansion, normal:	- E-5/°C	ASTM D 696
Glow wire test - thickn. 2mm:	- °C	IEC 695-2-1
Glow wire test - thickn. 1mm:	- °C	IEC 695-2-1

### Flame retardancy

Flammability at 1.6 mm nominal thickness:	HB class	UL94
Flammability (Thickness tested):	1,50 mm	
Flammability by Oxygen index:	18 %	ISO 4589
Needle burner test (1,47 mm):	N	
Needle burner test (3,05 mm):	N	

### Electrical properties

Comparative tracking index:	>600 Volts	IEC 112
Electric strength (2mm):	23,0 kV/mm	IEC 243-1

### Other properties

Density:	1,59 g/ccm	ISO 1183
Water absorption in water at 23°C:	0,20 %	ISO 62

### Examples of applications

General mechanical use, Industrial components, automotive industry, ...

## RED THERMOPLASTIC ELASTOMER ESD ERGONOMIC PAD

### General

Basic material:	SEBS
Hardness:	39 Shore A
Service temperature range:	-50 -- +125°C (unstressed material)
Colour:	Red
Appearance:	Supplied as granules to be processed without predrying when stored under normal conditions
Weatherability:	Good
Ozone-/UV-resistance:	Good
Chemical resistance:	Good, (excluding organic solvents, aromatic- and vegetable oils)
Recycling:	100% recyclable

### Mechanical & Physical properties

Properties	Standard	Test Unit	Typical Value
Hardness:	ASTM D 2240	Shore A	39
Specific gravity	ASTM D 792	g/cm <sup>3</sup>	1.09
Tensile strength	ASTM D 638	MPa	1.6
E-100	ASTM D 638	MPa	1.1
E-300	ASTM D 638	MPa	1.6
Elongation	ASTM D 638	%	385
Tear strength	ASTM D 624	kN/m	15

The above information is, to the best of our knowledge, true and accurate, but any recommendations or suggestions which may be made are without guarantee, since the conditions of use are beyond our control.

## BLACK THERMOPLASTIC ELASTOMER ESD ERGONOMIC PAD

### General

Basic material:	SEBS
Hardness:	31 Shore A
Service temperature range:	-50 -- +125°C (unstressed material)
Colour:	Black
Appearance:	Supplied as granules to be processed without predrying when stored under normal conditions
Weatherability:	Good
Ozone-/UV-resistance:	Good
Chemical resistance:	Good, (excluding organic solvents, aromatic- and vegetable oils)
Recycling:	100% recyclable

### Mechanical & Physical properties

Properties	Standard	Test Unit	Typical Value
Hardness:	ASTM D 2240	Shore A	31
Specific gravity	ASTM D 792	g/cm <sup>3</sup>	1.08
Tensile strength	ASTM D 638	MPa	1.4
E-100	ASTM D 638	MPa	0.8
E-300	ASTM D 638	MPa	1.2
Elongation	ASTM D 638	%	612
Tear strength	ASTM D 624	kN/m	11.4

The above information is, to the best of our knowledge, true and accurate, but any recommendations or suggestions which may be made are without guarantee, since the conditions of use are beyond our control.



**PECAUT**  
ENTREPRISE TECHNIQUE  
*Depuis 1964*

**DUMONT**   
S W I S S M A D E 

ADDRESS : Rue du Puits-Godet 10  
CH-2002 Neuchâtel

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PHONE : +41 032 710 14 14

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EMAIL : [info@pecaut.com](mailto:info@pecaut.com)

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WEBSITE : [www.pecaut.com](http://www.pecaut.com)