

# Precious metal ceramic alloys.

| Colour  | Alloys                            | Cat. No. |          | Type (ISO 22674) | Pd-free | Cu-free | Ag-free | Indication |   |   |   |   |   | Composition %  |    |    |    |    |       |       |       |       |       |      |       |                  |       |        |      |      |        |      |  |  |
|---|-----------------------------------|----------|----------|------------------|---------|---------|---------|------------|---|---|---|---|---|----------------|----|----|----|----|-------|-------|-------|-------|-------|------|-------|------------------|-------|--------|------|------|--------|------|--|--|
|   |                                   | 10 g     | 25 g     |                  |         |         |         | a          | b | c | d | e | f | Au + Pt metals | Au | Pt | Pd | Ag | Cu    | Sn    | Zn    | In    | Ga    | Ir   | Ru    | Rh               | Fe    | Others |      |      |        |      |  |  |
| <b>Precious metal ceramic alloys</b>  |                                   |          |          |                  |         |         |         |            |   |   |   |   |   |                |    |    |    |    |       |       |       |       |       |      |       |                  |       |        |      |      |        |      |  |  |
|   | V-Gnathos Plus                    | ***      | 01000223 | 01000224         | 4       | ✓       | ✓       | ✓          |   | ■ | ■ | ■ | ■ |                |    |    |    |    | 1.50  | 0.10  |       | 0.05  |       | 0.20 | 0.05  | Mn 0.10, Nb 0.40 |       |        |      |      |        |      |  |  |
|   | Estetico <sup>®</sup> Ideal H     | ***      | 01000265 | 01000266         | 4       |         |         |            | ■ | ■ | ■ | ■ | ■ |                |    |    |    |    | 0.50  | 1.10  |       | 0.10  |       |      | 0.20  |                  |       |        |      |      |        |      |  |  |
|   | Estetico <sup>®</sup> Avenir      | ***      | 01000246 | 01000247         | 4       |         | ✓       |            | ■ | ■ | ■ | ■ | ■ |                |    |    |    |    | 2.20  |       |       | 0.10  |       |      | 0.20  |                  |       |        |      |      |        |      |  |  |
|   | Estetico <sup>®</sup> Cosmor H    | ***      | 01000235 | 01000236         | 4       |         | ✓       | ✓          | ■ | ■ | ■ | ■ | ■ |                |    |    |    |    |       |       |       | 0.20  |       |      |       |                  |       |        |      |      |        |      |  |  |
|   | V-Classic                         | ***      | 01000220 | 01000221         | 4       |         |         |            | ■ | ■ | ■ | ■ | ■ |                |    |    |    |    | 19.00 | 1.00  | 0.44  | 2.00  | 0.50  | 2.00 | 0.01  | 0.05             |       |        |      |      |        |      |  |  |
|   | V-Deltaloy                        | **       | 01000200 | 01000201         | 4       |         | ✓       |            | ■ | ■ | ■ | ■ | ■ |                |    |    |    |    | 8.99  | 0.90  | 0.01  | 0.03  |       |      |       |                  |       |        |      |      |        |      |  |  |
|   | V-Delta Special                   | **       | 01000195 | 01000196         | 4       |         |         |            | ■ | ■ | ■ | ■ | ■ |                |    |    |    |    | 25.54 | 17.00 | 0.20  | 3.50  | 0.20  | 1.00 | 0.02  | 0.04             |       |        |      |      |        |      |  |  |
|   | V-Delta SF                        | **       | 01000203 | 01000204         | 4       |         | ✓       | ✓          | ■ | ■ | ■ | ■ | ■ |                |    |    |    |    |       |       |       | 8.50  | 1.50  |      | 0.10  |                  |       |        |      |      |        |      |  |  |
|   | Estetico <sup>®</sup> Economic    | **       | 01000239 | 01000240         | 4       |         | ✓       |            | ■ | ■ | ■ | ■ | ■ |                |    |    |    |    | 0.45  | 25.00 | 19.00 |       | 1.00  | 1.00 | 3.50  | 0.05             |       |        |      |      |        |      |  |  |
|   | Estetico <sup>®</sup> Plus        | **       | 01000179 | 01000180         | 4       |         |         |            | ■ | ■ | ■ | ■ | ■ |                |    |    |    |    |       |       |       | 38.90 | 5.00  | 0.40 | 0.50  | 8.60             | 1.40  | 0.20   |      |      |        |      |  |  |
|   | Estetico <sup>®</sup> Accurate 40 | **       | 01000273 | 01000274         | 4       |         | ✓       |            | ■ | ■ | ■ | ■ | ■ | ■              |    |    |    |    |       |       |       | 36.80 | 13.30 |      |       | 9.50             | 0.20  | 0.20   |      |      |        |      |  |  |
|   | Cerapall 6                        | *        | 01000188 | 01000189         | 4       |         | ✓       |            | ■ | ■ | ■ | ■ | ■ |                |    |    |    |    |       |       |       | 75.00 | 6.40  |      | 0.10  |                  | 5.90  | 6.00   | 0.50 |      |        |      |  |  |
|   | Cerapall 2                        | *        | 01000213 | 01000214         | 4       |         |         | ✓          | ■ | ■ | ■ | ■ | ■ |                |    |    |    |    |       |       |       | 78.50 |       | 6.90 | 2.00  | 0.10             | 4.50  | 5.50   | 0.50 |      |        |      |  |  |
|   | Estetico <sup>®</sup> CC          | *        | 01000175 | 01000176         | 4       |         | ✓       |            | ■ | ■ | ■ | ■ | ■ | ■              |    |    |    |    |       |       |       | 52.29 | 23.00 |      | 2.00  |                  | 10.00 | 0.50   | 0.20 |      | B 0.01 |      |  |  |
|   | Estetico <sup>®</sup> Blancor     | *        | 01000208 | 01000209         | 4       |         | ✓       |            | ■ | ■ | ■ | ■ | ■ |                |    |    |    |    |       |       |       | 57.29 | 29.00 |      | 1.00  |                  | 11.00 | 0.50   | 0.20 |      | B 0.01 |      |  |  |
|   | Estetico <sup>®</sup> N2          | *        | 01000184 | 01000185         | 4       |         | ✓       |            | ■ | ■ | ■ | ■ | ■ | ■              |    |    |    |    |       |       |       | 52.00 | 20.00 |      | 5.40  |                  | 6.00  | 1.00   | 0.20 |      | B 0.01 |      |  |  |
|   | Ceradelta 2                       | *        | 01000170 | 01000171         | 4       |         | ✓       |            | ■ | ■ | ■ | ■ | ■ | ■              |    |    |    |    |       |       |       | 61.45 | 24.45 |      | 10.00 | 2.00             | 2.00  |        | 0.05 |      | B 0.05 |      |  |  |
|   | Estetico <sup>®</sup> Actual      | *        | 01000250 | 01000251         | 4       |         | ✓       |            | ■ | ■ | ■ | ■ | ■ |                |    |    |    |    |       |       |       | 53.60 | 37.59 |      | 8.60  |                  |       |        | 0.20 |      | B 0.01 |      |  |  |
|   | Estetico <sup>®</sup> NewStart    | *        | 01000206 | 01000207         | 4       |         | ✓       |            | ■ | ■ | ■ | ■ | ■ |                |    |    |    |    |       |       |       | 58.00 | 29.99 |      | 6.00  | 1.70             | 4.00  |        | 0.30 |      | B 0.01 |      |  |  |
|   | Ceradelta                         | *        | 01000242 | 01000243         | 4       |         | ✓       |            | ■ | ■ | ■ | ■ | ■ | ■              |    |    |    |    |       |       |       | 57.45 | 32.00 |      | 2.00  | 1.00             | 6.00  | 1.50   |      | 0.05 |        |      |  |  |
| <b>Precious metal ceramic alloys for dental restorative systems on implants</b> |                                   |          |          |                  |         |         |         |            |   |   |   |   |   |                |    |    |    |    |       |       |       |       |       |      |       |                  |       |        |      |      |        |      |  |  |
|   | Estetico <sup>®</sup> Implant 76  | ***      | 01000259 | 01000260         | 4       |         | ✓       | ✓          | ■ | ■ | ■ | ■ | ■ |                |    |    |    |    |       |       |       | 96.90 | 76.80 | 1.35 | 18.60 |                  |       | 2.90   | 0.20 |      |        | 0.15 |  |  |
|   | Estetico <sup>®</sup> Implant 58  | **       | 01000228 | 01000229         | 4       |         | ✓       |            | ■ | ■ | ■ | ■ | ■ |                |    |    |    |    |       |       |       | 87.50 | 58.50 |      | 28.85 | 8.00             |       | 4.50   |      |      | 0.05   | 0.10 |  |  |
|   | Estetico <sup>®</sup> Implant 32  | *        | 01000191 | 01000192         | 4       |         | ✓       |            | ■ | ■ | ■ | ■ | ■ |                |    |    |    |    |       |       |       | 73.00 | 32.00 |      | 40.85 | 19.00            |       | 5.00   |      | 3.00 |        | 0.15 |  |  |

| Colour        | Use                                   |
|---------------|---------------------------------------|
| Yellow        | a: Inlays, onlays, 3/4-crowns         |
| Bright yellow |                                       |
| Pale yellow   |                                       |
| White         | b: Single crowns                      |
|               | c: Bridges small span widths          |
|               | d: Bridges large span widths          |
|               | e: Milling work                       |
|               | f: Clasps, small and large connectors |

  

| Gold content              | Delivery form      |
|---------------------------|--------------------|
| *** = High gold content   | ■ = Casting plates |
| ** = Reduced gold content |                    |
| * = Pd-based              |                    |

# Precious metal ceramic alloys.

| Colour  | Alloys                 | Cat. No. |          | Physical properties:                   |             |                   |               |                 | Mechanical properties |              |                       |                     | Solders       |               |              | Laser welding wire |         |         |
|---|------------------------|----------|----------|--|-------------|-------------------|---------------|-----------------|-----------------------|--------------|-----------------------|---------------------|---------------|---------------|--------------|--------------------|---------|---------|
|   |                        | 10 g     | 25 g     | CTE   10 <sup>-6</sup> K <sup>-1</sup> |             | Density           | Melting range | Young's Modulus | Hardness HV5          |              | Proof stress Rp 0.2 % | Yield strength (Rm) | Elongation A5 | Before firing | After firing |                    |         |         |
|   |                        |          |          | (25-500 °C)                            | (25-600 °C) | g/cm <sup>3</sup> | °C            | GPa             | After casting         | After firing | MPa                   | MPa                 | %             |               |              |                    |         |         |
| <b>Precious metal ceramic alloys</b>  |                        |          |          |  |             |                   |               |                 |                       |              |                       |                     |               |               |              |                    |         |         |
|   | V-Gnathos Plus         | ***      | 01000223 | 01000224                               | 14.3        | 14.5              | 18.8          | 1025-1190       | 80                    | 185          | 215                   | 530                 | 610           | 6             | S.G 1030     | S.G 750            | LW N° 1 |         |
|   | Estetecor® Ideal H     | ***      | 01000265 | 01000266                               | 14.5        | 14.7              | 18.4          | 1045-1170       | 90                    | 160          | 195                   | 500                 | 615           | 12            | S.G 1030     | S.G 810            | S.G 750 | LW N° 1 |
|   | Estetecor® Avenir      | ***      | 01000246 | 01000247                               | 14.2        | 14.6              | 18.7          | 1055-1185       | 100                   | 205          | 240                   | 670                 | 755           | 6             | S.G 1030     | S.G 810            | S.G 750 | LW N° 1 |
|   | Estetecor® Cosmor H    | ***      | 01000235 | 01000236                               | 13.8        | 14.0              | 17.9          | 1120-1280       | 100                   | 195          | 215                   | 565                 | 705           | 13            | S.G 1080     | S.G 810            | S.G 750 | LW N° 2 |
|   | V-Classic              | ***      | 01000220 | 01000221                               | 14.0        | 14.3              | 16.4          | 1135-1270       | 105                   | 220          | 250                   | 565                 | 735           | 15            | S.W 1125     | S.G 750            | LW N° 2 |         |
|   | V-Deltaloy             | **       | 01000200 | 01000201                               | 14.1        | 14.3              | 14.7          | 1115-1295       | 125                   | 250          | 255                   | 635                 | 865           | 9             | S.W 1100     | S.G 1080           | S.G 750 | LW N° 3 |
|   | V-Delta Special        | **       | 01000195 | 01000196                               | 14.7        | 14.9              | 14.4          | 1155-1265       | 115                   | 205          | 250                   | 510                 | 705           | 7             | S.W 1100     | S.G 750            | LW N° 3 |         |
|   | V-Delta SF             | **       | 01000203 | 01000204                               | 13.6        | 13.9              | 14.5          | 1210-1310       | 115                   | 225          | 245                   | 525                 | 790           | 25            | S.W 1125     | S.G 1120           | S.G 750 | LW N° 3 |
|   | Estetecor® Economic    | **       | 01000239 | 01000240                               | 14.8        | 15.1              | 14.0          | 1145-1255       | 120                   | 205          | 235                   | 535                 | 750           | 15            | S.W 1100     | S.G 810            | S.G 750 | LW N° 2 |
|   | Estetecor® Plus        | **       | 01000179 | 01000180                               | 13.9        | 14.2              | 13.8          | 1115-1285       | 135                   | 235          | 260                   | 580                 | 865           | 23            | S.W 1100     | S.G 810            | S.G 750 | LW N° 2 |
|   | Estetecor® Accurate 40 | **       | 01000273 | 01000274                               | 14.1        | 14.4              | 13.6          | 1210-1295       | 125                   | 235          | 245                   | 490                 | 715           | 15            | S.W 1125     | S.G 750            | LW N° 2 |         |
|   | Cerapall 6             | *        | 01000188 | 01000189                               | 13.7        | 14.0              | 11.7          | 1135-1340       | 120                   | 260          | 255                   | 530                 | 830           | 34            | S.W 1125     | S.G 1120           | S.G 750 | LW N° 2 |
|   | Cerapall 2             | *        | 01000213 | 01000214                               | 13.5        | 13.9              | 11.4          | 1165-1285       | 130                   | 305          | 280                   | 590                 | 860           | 34            | S.W 1125     | S.G 1080           | S.G 750 | LW N° 2 |
|   | Estetecor® CC          | *        | 01000175 | 01000176                               | 14.3        | 14.6              | 11.8          | 1200-1305       | 130                   | 305          | 260                   | 645                 | 865           | 9             | S.W 1125     | S.G 750            | LW N° 2 |         |
|   | Estetecor® Blancor     | *        | 01000208 | 01000209                               | 14.3        | 14.6              | 11.3          | 1205-1310       | 135                   | 300          | 260                   | 605                 | 845           | 13            | S.W 1100     | S.G 750            | LW N° 3 |         |
|   | Estetecor® N2          | *        | 01000184 | 01000185                               | 14.1        | 14.4              | 12.0          | 1150-1265       | 120                   | 295          | 260                   | 565                 | 855           | 13            | S.W 1100     | S.G 810            | S.G 750 | LW N° 3 |
|   | Ceradelta 2            | *        | 01000170 | 01000171                               | 14.2        | 14.6              | 11.3          | 1160-1265       | 125                   | 315          | 265                   | 540                 | 760           | 14            | S.G 1120     | S.G 750            | LW N° 3 |         |
|   | Estetecor® Actual      | *        | 01000250 | 01000251                               | 14.8        | 15.1              | 11.2          | 1190-1270       | 125                   | 225          | 225                   | 520                 | 785           | 25            | S.W 1100     | S.G 810            | S.G 750 | LW N° 3 |
|   | Estetecor® NewStart    | *        | 01000206 | 01000207                               | 14.5        | 14.9              | 11.2          | 1180-1270       | 135                   | 265          | 220                   | 525                 | 785           | 32            | S.W 1100     | S.G 810            | S.G 750 | LW N° 3 |
|   | Ceradelta              | *        | 01000242 | 01000243                               | 14.6        | 14.9              | 11.3          | 1135-1275       | 110                   | 255          | 250                   | 565                 | 780           | 13            | S.G 1120     | S.G 750            | LW N° 2 |         |
| <b>Precious metal ceramic alloys for dental restorative systems on implants</b> |                        |          |          |  |             |                   |               |                 |                       |              |                       |                     |               |               |              |                    |         |         |
|   | Estetecor® Implant 76  | ***      | 01000259 | 01000260                               | 13.7        | 13.9              | 16.9          | 1165-1290       | 115                   | 205          | 235                   | 630                 | 785           | 10            | S.G 1055     | S.G 1030           | S.G 750 | LW N° 3 |
|   | Estetecor® Implant 58  | **       | 01000228 | 01000229                               | 13.9        | 14.0              | 15.1          | 1215-1305       | 120                   | 240          | 260                   | 610                 | 820           | 13            | S.G 1055     | S.G 1030           | S.G 750 | LW N° 3 |
|   | Estetecor® Implant 32  | *        | 01000191 | 01000192                               | 14.2        | 14.5              | 13.1          | 1215-1290       | 125                   | 225          | 240                   | 555                 | 820           | 17            | S.G 1055     | S.G 1030           | S.G 750 | LW N° 3 |

| Colour        | Use                                   |
|---------------|---------------------------------------|
| Yellow        | a: Inlays, onlays, ¾-crowns           |
| Bright yellow | b: Single crowns                      |
| Pale yellow   | c: Bridges small span widths          |
| White         | d: Bridges large span widths          |
|               | e: Milling work                       |
|               | f: Clasps, small and large connectors |

  

| Gold content              | Delivery form      |
|---------------------------|--------------------|
| *** = High gold content   | ■ = Casting plates |
| ** = Reduced gold content |                    |
| * = Pd-based              |                    |

# Precious metal universal and casting alloys.

| Colour                  | Alloys                          | Cat. No. |          | Type (ISO 22674) | Pd-free | Cu-free | Indication |   |   |   |   |   | Composition %  |    |       |       |       |    |       |       |       |      | Physical properties: |  |         |                  |                 |      |      |           |     |
|-------------------------|---------------------------------|----------|----------|------------------|---------|---------|------------|---|---|---|---|---|----------------|----|-------|-------|-------|----|-------|-------|-------|------|----------------------|--|---------|------------------|-----------------|------|------|-----------|-----|
|                         |                                 | 10 g     | 25 g     |                  |         |         | a          | b | c | d | e | f | Au + Pt metals | Au | Pt    | Pd    | Ag    | Cu | Sn    | Zn    | In    | Ir   | Others               | CTE   10 <sup>-6</sup> K <sup>-1</sup> | Density | Melting range    | Young's Modulus |      |      |           |     |
| <b>Universal alloys</b> |                                 |          |          |                  |         |         |            |   |   |   |   |   |                |    |       |       |       |    |       |       |       |      |                      |  |         |                  |                 |      |      |           |     |
|                         | BioEthic                        | ***      | 01000269 | 01000270         | 4       | ◇       | ◇          | ■ | ■ | ■ | ■ | ■ | ■              | ■  | 97.87 | 86.70 | 10.75 |    |       | 0.03  |       | 0.10 | 1.50                 | 0.20                                   | 0.02    | Ta 0.30, Rh 0.40 | 14.5            | 14.8 | 19.0 | 1025–1145 | 90  |
|                         | DGVO8 H                         | ***      | 01000276 | 01000277         | 4       |         | ◆          | ■ | ■ | ■ | ■ | ■ | ■              | ■  | 80.50 | 73.10 | 1.50  |    | 5.80  | 16.00 |       | 0.50 | 2.80                 | 0.20                                   | 0.10    |                  | 16.0            | 16.4 | 15.8 | 960–1065  | 105 |
|                         | Esteticor <sup>®</sup> Ecologic | *        | 01000263 | 01000264         | 4       |         | ◆          | ■ | ■ | ■ | ■ | ■ | ■              | ■  | 49.00 | 32.00 | 2.00  |    | 15.00 | 42.00 |       |      |                      | 9.00                                   |         |                  | 17.0            | 17.5 | 12.7 | 990–1065  | 95  |
| <b>Casting alloys</b>   |                                 |          |          |                  |         |         |            |   |   |   |   |   |                |    |       |       |       |    |       |       |       |      |                      |  |         |                  |                 |      |      |           |     |
|                         | Opticast                        | ***      | 01000325 | 01000326         | 2       | ✓       |            | ■ |   |   |   |   |                |    | 83.30 | 83.20 |       |    | 8.00  | 8.50  |       | 0.20 |                      | 0.10                                   |         |                  |                 |      | 16.4 | 915–935   | 90  |
|                         | Aurofluid 2 PF                  | ***      | 01000317 | 01000318         | 2       | ✓       |            | ■ | ■ | ■ |   |   |                |    | 79.06 | 78.05 | 0.99  |    | 11.50 | 8.50  |       | 0.94 |                      | 0.02                                   |         |                  |                 |      | 15.9 | 895–960   | 90  |
|                         | Pontor MPF                      | ***      | 01000293 | 01000294         | 4       | ✓       |            | ■ | ■ | ■ | ■ | ■ | ■              |    | 75.62 | 72.00 | 3.60  |    | 13.70 | 9.78  |       | 0.90 |                      | 0.02                                   |         |                  |                 |      | 15.5 | 895–940   | 90  |
|                         | Neocast 3                       | ***      | 01000285 | 01000286         | 4       | ✓       |            | ■ | ■ | ■ | ■ | ■ | ■              |    | 75.40 | 71.60 | 3.75  |    | 12.70 | 10.80 |       | 1.10 |                      | 0.05                                   |         |                  |                 |      | 15.5 | 890–935   | 90  |
|                         | Protor 3                        | ***      | 01000280 | 01000281         | 4       |         |            | ■ | ■ | ■ | ■ | ■ | ■              |    | 75.35 | 68.60 | 2.45  |    | 3.95  | 11.85 | 10.60 |      | 2.50                 |  | 0.05    |                  |                 |      | 15.0 | 895–960   | 135 |
|                         | Dentalor 60                     | **       | 01000302 | 01000303         | 4       |         |            | ■ | ■ | ■ | ■ | ■ | ■              |    | 63.50 | 60.00 | 0.45  |    | 3.00  | 22.50 | 12.50 |      | 1.50                 |  | 0.05    |                  |                 |      | 13.8 | 860–900   | 95  |
|                         | Solaro 3                        | **       | 01000308 | 01000309         | 4       |         |            | ■ | ■ | ■ | ■ | ■ | ■              |    | 61.50 | 56.00 | 0.40  |    | 5.00  | 25.00 | 11.80 |      | 1.70                 |  | 0.10    |                  |                 |      | 13.7 | 875–935   | 110 |
|                         | Medior 3                        | **       | 01000298 | 01000299         | 4       |         |            | ■ | ■ | ■ | ■ | ■ | ■              |    | 61.00 | 55.00 |       |    | 5.95  | 26.00 | 10.90 |      | 2.10                 |  |         | Ru 0.05          |                 |      | 13.4 | 870–925   | 105 |
|                         | Solaro 4                        | **       | 01000322 | 01000323         | 4       |         |            | ■ | ■ | ■ | ■ | ■ | ■              |    | 49.50 | 45.00 |       |    | 4.48  | 41.00 | 9.50  |      |                      |  |         | Ru 0.02          |                 |      | 12.9 | 885–945   | 85  |
|                         | Yellow Special                  | **       | 01000290 | 01000291         | 4       |         |            | ■ | ■ | ■ | ■ | ■ | ■              |    | 43.20 | 41.00 | 0.45  |    | 1.70  | 44.90 | 11.00 | 0.20 | 0.70                 |  |         | Ru 0.05          |                 |      | 12.5 | 825–900   | 90  |
|                         | Strator 3                       | *        | 01000313 | 01000314         | 3       |         | ✓          |   | ● | ● | ● | ● | ●              |    | 40.00 | 20.00 |       |    | 19.95 | 40.00 |       |      | 4.00                 | 16.00                                  |         | Ru 0.05          |                 |      | 11.4 | 855–900   | 75  |
|                         | Pallorag 33                     | *        | 01000306 | 01000307         | 4       |         |            | ■ | ■ | ■ | ■ | ■ |                |    | 30.00 | 10.00 |       |    | 20.00 | 59.50 | 9.50  |      | 1.00                 |  |         |                  |                 |      | 10.9 | 935–1020  | 95  |
|                         | Pagalin 2                       | *        | 01000278 | 01000279         | 4       |         |            | ■ | ■ | ■ |   |   |                |    | 26.05 | 3.00  |       |    | 23.00 | 65.00 | 6.45  |      | 0.50                 | 2.00                                   | 0.05    |                  |                 |      | 10.8 | 975–1070  | 95  |

| Colour        | Use                                   |
|---------------|---------------------------------------|
| Yellow        | a: Inlays, onlays, 3/4-crowns         |
| Bright yellow |                                       |
| Pale yellow   | b: Single crowns                      |
| White         |                                       |
|               | c: Bridges small span widths          |
|               | d: Bridges large span widths          |
|               | e: Milling work                       |
|               | f: Clasps, small and large connectors |

◆ = Can only be veneered with low-melting ceramics with a high CTE

◇ = Can be veneered with high-melting ceramics with a medium CTE

| Gold content              | Delivery form        |
|---------------------------|----------------------|
| *** = High gold content   | ■ = Casting plates   |
| ** = Reduced gold content | ● = Casting granules |
| * = Ag-based              |                      |

# Precious metal universal and casting alloys.

| Colour                  | Alloys                     | Cat. No.      |              | Mechanical properties |          |               |              |                          |          |               |              | Yield strength (Rm) |          |               |              | Elongation A5 |          |               |              | Solders       |              | Laser welding wire |         |         |
|-------------------------|----------------------------|---------------|--------------|-----------------------|----------|---------------|--------------|--------------------------|----------|---------------|--------------|---------------------|----------|---------------|--------------|---------------|----------|---------------|--------------|---------------|--------------|--------------------|---------|---------|
|                         |                            | 10 g          | 25 g         | Hardness HV5          |          |               |              | Proof stress Rp 0.2% MPa |          |               |              | MPa                 |          |               |              | %             |          |               |              | Before firing | After firing |                    |         |         |
|                         |                            | After casting | After firing | Soft                  | Hardened | After casting | After firing | Soft                     | Hardened | After casting | After firing | Soft                | Hardened | After casting | After firing | Soft          | Hardened | After casting | After firing | Soft          | Hardened     |                    |         |         |
| <b>Universal alloys</b> |                            |               |              |                       |          |               |              |                          |          |               |              |                     |          |               |              |               |          |               |              |               |              |                    |         |         |
|                         | <b>BioEthic</b>            | ***           | 01000269     | 01000270              | 185      | 220           | 95           | 210                      | 435      | 525           | 180          | 575                 | 550      | 655           | 350          | 660           | 5        | 6             | 29           | 5             | S.G 1030     | S.G 810            | S.G 750 | LW N° 1 |
|                         | <b>DGVO8 H</b>             | ***           | 01000276     | 01000277              | 230      | 240           | 180          | 265                      | 620      | 675           | 335          | 720                 | 695      | 745           | 475          | 795           | 4        | 5             | 21           | 5             | S.G 880      | S.G 700            |         | LW N° 4 |
|                         | <b>Esteticor® Ecologic</b> | *             | 01000263     | 01000264              | 190      | 220           | 180          | 220                      | 435      | 515           | 360          | 535                 | 625      | 685           | 580          | 690           | 7        | 8             | 12           | 6             | S.G 920      | S.G 700            |         | LW N° 4 |
| <b>Casting alloys</b>   |                            |               |              |                       |          |               |              |                          |          |               |              |                     |          |               |              |               |          |               |              |               |              |                    |         |         |
|                         | <b>Opticast</b>            | ***           | 01000325     | 01000326              | 115      |               | 115          |                          | 215      |               | 245          |                     | 395      |               | 355          |               | 41       |               | 56           |               | S.G 810      | S.G 750            |         | LW N° 5 |
|                         | <b>Aurofluid 2 PF</b>      | ***           | 01000317     | 01000318              | 140      |               | 125          | 135                      | 280      |               | 245          | 320                 | 425      |               |              |               | 48       |               | 40           | 30            | S.G 810      | S.G 750            |         | LW N° 5 |
|                         | <b>Pontor MPF</b>          | ***           | 01000293     | 01000294              | 240      |               | 150          | 220                      | 545      |               | 320          | 490                 | 685      |               | 465          | 580           | 17       |               | 38           | 19            | S.G 810      | S.G 750            |         | LW N° 5 |
|                         | <b>Neocast 3</b>           | ***           | 01000285     | 01000286              | 245      |               | 180          | 240                      | 610      |               | 405          | 635                 | 725      |               | 535          | 750           | 17       |               | 33           | 14            | S.G 810      | S.G 750            |         | LW N° 5 |
|                         | <b>Protor 3</b>            | ***           | 01000280     | 01000281              | 270      |               | 175          | 275                      | 685      |               | 410          | 680                 | 850      |               | 535          | 780           | 13       |               | 35           | 12            | S.G 810      | S.G 750            |         | LW N° 5 |
|                         | <b>Dentalor 60</b>         | **            | 01000302     | 01000303              | 265      |               | 170          | 250                      | 830      |               | 475          | 845                 | 895      |               | 580          | 890           | 12       |               | 48           | 10            | S.G 810      | S.G 750            |         | LW N° 6 |
|                         | <b>Solaro 3</b>            | **            | 01000308     | 01000309              | 295      |               | 175          | 260                      | 885      |               | 350          | 600                 | 980      |               |              |               | 5        |               | 30           | 10            | S.G 810      | S.G 750            |         | LW N° 6 |
|                         | <b>Medior 3</b>            | **            | 01000298     | 01000299              | 295      |               | 170          | 280                      | 865      |               | 435          | 815                 | 930      |               | 560          | 905           | 4        |               | 35           | 5             | S.G 810      | S.G 750            |         | LW N° 6 |
|                         | <b>Solaro 4</b>            | **            | 01000322     | 01000323              | 170      |               | 120          | 215                      | 435      |               | 245          | 610                 | 595      |               | 415          | 755           | 19       |               | 38           | 12            | S.G 810      | S.G 750            |         | LW N° 6 |
|                         | <b>Yellow Special</b>      | **            | 01000290     | 01000291              | 160      |               | 130          | 260                      | 400      |               | 275          | 440                 | 515      |               | 450          | 670           | 20       |               | 31           | 13            | S.G 750      | S.G 700            |         | LW N° 6 |
|                         | <b>Strator 3</b>           | *             | 01000313     | 01000314              | 175      |               | 125          | 165                      | 315      |               | 230          | 305                 | 535      |               | 465          | 530           | 5        |               | 7            | 5             | S.G 810      | S.G 750            |         |         |
|                         | <b>Pallorag 33</b>         | *             | 01000306     | 01000307              | 170      |               | 135          | 230                      | 430      |               | 280          | 615                 | 575      |               | 505          | 810           | 15       |               | 24           | 9             | S.G 810      | S.G 750            |         | LW N° 7 |
|                         | <b>Pagalin 2</b>           | *             | 01000278     | 01000279              | 175      |               | 135          | 230                      | 390      |               | 250          | 400                 | 580      |               |              |               | 22       |               | 20           | 7             | S.G 880      | S.G 750            |         | LW N° 7 |

| Colour        | Use                                   |
|---------------|---------------------------------------|
| Yellow        | a: Inlays, onlays, 3/4-crowns         |
| Bright yellow | b: Single crowns                      |
| Pale yellow   | c: Bridges small span widths          |
| White         | d: Bridges large span widths          |
|               | e: Milling work                       |
|               | f: Clasps, small and large connectors |

◆ = Can only be veneered with low-melting ceramics with a high CTE  
◇ = Can be veneered with high-melting ceramics with a medium CTE

| Gold content              | Delivery form        |
|---------------------------|----------------------|
| *** = High gold content   | ■ = Casting plates   |
| ** = Reduced gold content | ● = Casting granules |
| * = Ag-based              |                      |

# Alloys.

## Solders

| Solders |                 |          |             |   |                     |                         |       |      |       |       |      |       |      |         |
|---------|-----------------|----------|-------------|---|---------------------|-------------------------|-------|------|-------|-------|------|-------|------|---------|
| Colour  | Description     | Cat. No. | Indications |   | Melting range<br>°C | Composition in weight % |       |      |       |       |      |       |      |         |
|         |                 |          | A           | B |                     | Au + Pt metals          | Au    | Pt   | Pd    | Ag    | Cu   | Zn    | Ir   | Others  |
|         | <b>S.G 700</b>  | 01000352 | A           | B | 650–710             | 72.90                   | 72.40 | 0.45 |       | 10.20 | 2.90 | 12.00 | 0.05 | In 2.00 |
|         | <b>S.G 750</b>  | 01000345 | A           | B | 700–750             | 76.10                   | 75.10 | 1.00 |       | 11.75 |      | 12.15 |      |         |
|         | <b>S.G 810</b>  | 01000348 | A           | B | 740–810             | 76.10                   | 75.10 | 1.00 |       | 14.50 |      | 9.40  |      |         |
|         | <b>S.G 880</b>  | 01000355 | A           |   | 840–880             | 78.90                   | 75.90 | 2.90 |       | 10.20 | 5.90 | 5.00  | 0.10 |         |
|         | <b>S.G 920</b>  | 01000354 | A           |   | 880–920             | 89.10                   | 88.10 | 0.90 |       | 3.00  | 5.10 | 2.80  | 0.10 |         |
|         | <b>S.G 1030</b> | 01000350 | A           |   | 990–1040            | 85.50                   | 85.00 | 0.45 |       | 13.50 |      | 1.00  | 0.05 |         |
|         | <b>S.G 1055</b> | 01000353 | A           |   | 1020–1070           | 82.40                   | 80.00 | 2.40 |       | 16.90 |      | 0.70  |      |         |
|         | <b>S.G 1080</b> | 01000347 | A           |   | 1060–1080           | 83.00                   | 80.00 | 3.00 |       | 17.00 |      |       |      |         |
|         | <b>S.G 1120</b> | 01000351 | A           |   | 1040–1120           | 80.10                   | 75.10 |      | 5.00  | 18.90 |      |       |      | Sn 1.00 |
|         | <b>S.W 1100</b> | 01000346 | A           |   | 1010–1100           | 80.50                   | 72.50 |      | 7.90  | 14.50 | 4.00 |       | 0.10 | In 1.00 |
|         | <b>S.W 1125</b> | 01000349 | A           |   | 1010–1130           | 95.50                   | 85.00 |      | 10.50 |       |      | 4.50  |      |         |

| Colour        | Use                   |
|---------------|-----------------------|
| Yellow        | A = Flame soldering   |
| Bright yellow | B = Furnace soldering |
| Pale yellow   |                       |
| White         |                       |

## Laser welding wires

| Laser welding wires |          |                     |                         |       |       |       |       |       |      |      |      |                  |                  |
|---------------------|----------|---------------------|-------------------------|-------|-------|-------|-------|-------|------|------|------|------------------|------------------|
| Description         | Cat. No. | Melting range<br>°C | Composition in weight % |       |       |       |       |       |      |      |      |                  |                  |
|                     |          |                     | Au + Pt metals          | Au    | Pt    | Pd    | Ag    | Cu    | Zn   | In   | Ir   | Others           |                  |
| <b>LW N° 1</b>      | 01000363 | 1045–1205           | 98.00                   | 84.50 | 13.30 |       |       |       |      | 1.90 |      | 0.10             | Rh 0.10, Fe 0.10 |
| <b>LW N° 2</b>      | 01000358 | 1120–1250           | 94.00                   | 75.10 |       | 18.85 | 1.00  | 0.50  | 0.50 | 2.00 | 0.05 | Sn 2.00,         |                  |
| <b>LW N° 3</b>      | 01000359 | 1165–1290           | 96.90                   | 76.80 | 1.35  | 18.60 |       |       |      | 0.20 | 0.15 | Sn 2.90,         |                  |
| <b>LW N° 4</b>      | 01000360 | 975–1090            | 83.50                   | 75.10 | 8.30  |       | 13.80 |       | 2.30 | 0.20 | 0.10 | Ta 0.10, Mn 0.10 |                  |
| <b>LW N° 5</b>      | 01000361 | 890–935             | 75.40                   | 71.60 | 3.75  |       | 12.70 | 10.80 | 1.10 |      | 0.05 |                  |                  |
| <b>LW N° 6</b>      | 01000362 | 870–920             | 66.50                   | 63.00 | 0.50  | 3.00  | 20.00 | 12.00 | 1.50 |      |      | Ru <1.00         |                  |
| <b>LW N° 7</b>      | 01000364 | 915–1005            | 79.90                   | 69.90 | 9.50  |       | 13.30 | 2.90  | 1.90 | 2.00 | 0.10 | Rh 0.40          |                  |

## Round wire

| Item                  | Colour      | Melting range<br>°C | Composition in weight % |       |       |    |      |    |    | Ø mm | Length mm | Use    | Cat. No. |
|-----------------------|-------------|---------------------|-------------------------|-------|-------|----|------|----|----|------|-----------|--------|----------|
|                       |             |                     | Au                      | Pt    | Ag    | Pd | Cu   | Zn | Ir |      |           |        |          |
| <b>Elasticor Wire</b> | pale yellow | 950–1050            | 61.00                   | 13.50 | 16.50 | –  | 9.00 | –  | –  | 1.15 | 200       | Clasps | 01000365 |

## Platinum foil

| Item | Colour | Melting point<br>°C | Composition in weight % | Thickness mm | Description | Cat. No. |
|------|--------|---------------------|-------------------------|--------------|-------------|----------|
|      |        |                     |                         |              |             |          |