



PFM – Assured Lab

| | | | | |
|---------------------|-------------|----------------|----------------|----------------------|
| Information | Yellow Gold | White Gold | Pd Based Alloy | Co-Cr (Ni & Be Free) |
| Trade Name | D-Sign 96 | Evolution Lite | D-Sign 67 | Wirobond SG |
| Manufacturer | Ivoclar | Ivoclar | Ivoclar | Bego |

Physical Characteristics

| | | | | |
|-------------------------|-------------------|------------------|-------------|--------------|
| Color | Yellow | White | White | Silver |
| Vickers Hardness | 215 | 280 | 250 | 310 |
| Elongation % | 14 | 11 | 13 | |
| Density(g/cm3) | 16.7 | 12.8 | 10.7 | 8.5 |
| Melting Range | 1050-1170 | 1100-1260 | 1180-1280 | 1370-1420 |
| Casting Temp. | 1225-1285 | 1315-1375 | 1335-1395 | ≈1480 |
| Class of Metal | High Noble Yellow | High Noble White | Noble White | Non-Precious |

Chemical Composition

| | | | | |
|-----------|---------------|---------------|---------------|---------------|
| AG | 9.0 | 9.2 | 20 | |
| AL | | | | |
| AU | 73.8 | 40.3 | 4 | |
| Co | | | | 63.8 |
| CR | | | | 24.8 |
| CU | | | | |
| FE | < 1 | | | < 1 |
| GA | | 1.8 | 1.7 | 2.9 |
| IN | 1.9 | 9.3 | 1.5 | |
| IR | | | | |
| LI | | | < 1 | |
| MN | < 1 | | | |
| MO | | | | 5.1 |
| NB | < 1 | | | |
| PD | 5.4 | 39.3 | 62.7 | |
| PT | 8.5 | | | |
| RE | < 1 | | < 1 | |
| RU | < 1 | < 1 | < 1 | |
| SI | | | | < 1 |
| SN | | | 10 | |
| TA | < 1 | | | |
| W | | | | 5.3 |
| ZN | | | | |



FGC – Assured Lab

| | | | | | | |
|---------------------|-------------|---------------|--------------|-------------|--------------|----------------------|
| Information | Yellow Gold | Yellow Gold | Yellow Gold | Yellow Gold | Yellow Gold | Co-Cr (Ni & Be Free) |
| Trade Name | JRVT | Argenco AU 58 | Argenco AU40 | Argenco Au2 | Harmony Au55 | Wirobond 280 |
| Manufacturer | Jensen | Argen | Argen | Argen | Ivoclar | Bego |

Physical Characteristics

| | | | | | | |
|-------------------------|-------------|------------|--------------|--------------|--------------|--------------|
| Color | Rich Yellow | Yellow | Yellow | Yellow | Yellow | Silver |
| Vickers Hardness | 120 | 210 | 125 | 175 | 185 | 280 |
| Elongation % | 55 | 10 | 30 | 5.8 | 19 | |
| Density(g/cm3) | 15.4 | 13.9 | 12.4 | 10.4 | 13.6 | 8.5 |
| Melting Range | 900-935 | 915-965 | 855-925 | 880-1145 | 975 | 1360-1400 |
| Casting Temp. | | | 1010 | | 1090 | 1500 |
| Class of Metal | High Noble | High Noble | Noble Yellow | Noble Yellow | Noble Yellow | Non-Precious |

Chemical Composition

| | | | | | | |
|-----------|---------------|-------------|---------------|-------------|--------------|-------------|
| AG | 13 | 27 | 46 | 34.5 | 30 | |
| AL | | | | | | |
| AU | 77 | 58 | 40 | 2 | 55 | |
| CO | | | | | | 60.2 |
| CR | | | | | | 25 |
| CU | 8.5 | 10.5 | 7.5 | | 9 | |
| FE | | | | | | |
| GA | | | | | | 2.9 |
| IN | <.1 | .25 | < 1 | 28 | | |
| IR | <.1 | | < 1 | | <1 | |
| LI | | | | | <1 | |
| MN | | | | | | |
| MO | | | | | | 4.8 |
| B | | | | | <1 | |
| PD | 1 | 3.25 | 5 | 32.7 | 5.2 | |
| PT | | | | | | |
| RE | | | | | | |
| RU | | | | | | |
| SI | | | | | | |
| SN | | | | | | |
| TA | < 1 | | | | | |
| W | | | | | | 6.2 |
| ZN | < 1 | 1 | 1 | 2.6 | | |