

TECHNOLOGY FOR STYLE

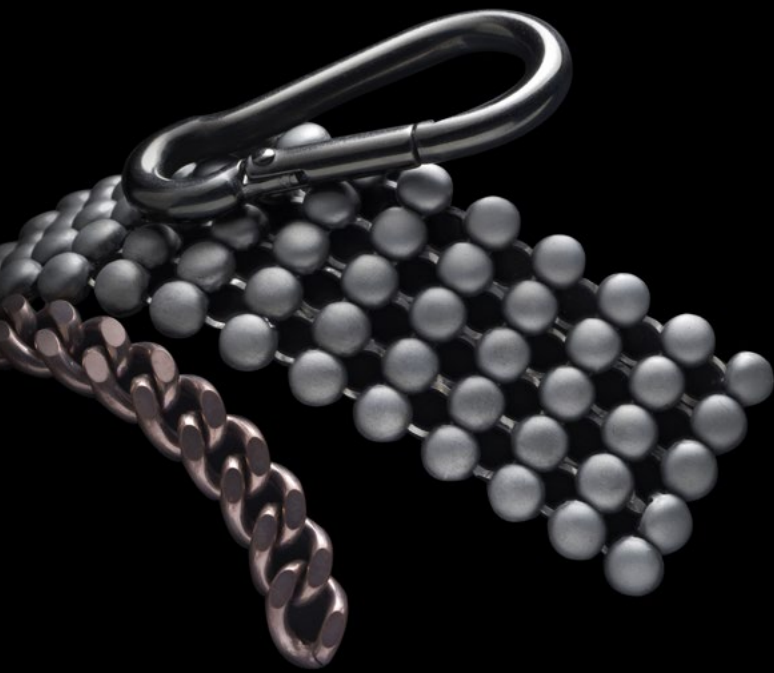
DLC & Superior coatings for luxury items



ARGOR-ALJBA

DLC & Superior coatings 

WHAT ARE ta-C DLC COATINGS

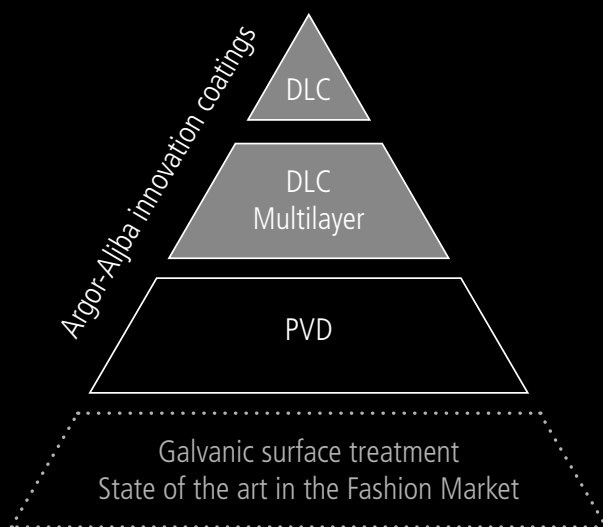


Argor-Aljba's ta-C DLC coatings, due to their tetrahedral structure, acquire the properties of a diamond. The share of the sp^3 -configured carbon lies around 75-85%, which is the reason for the high content of diamond structure. Furthermore, due to its procedure, Argor-Aljba's ta-C coatings are completely free of hydrogen.

The thereby obtained structure endows the coatings with the following properties:

- Very high hardness of about 5300 HV (twice as hard as other DLC layers)
- High wear resistance (around two times compared to other DLC layers)
- Very low friction coefficient
- Perfect adherence, thanks to a special intermediate layer
- Inalterable with moisture
- 100% biological compatibility
- Chemical stability and corrosion resistance

Through these properties, Argor-Aljba's coatings clearly distinguish themselves from conventional coatings. The considerably reduced friction and extreme hardness greatly increase performance, as well as the service life of components and accessories, compared to conventional coatings.








ENVIRONMENTAL ADVANTAGES

Discover the environmental advantages of DLC coatings



We pay considerable attention to environmental sustainability.

Nanocoatings are a very viable solution in many application fields to reduce the use of production resources; together with our customers, we innovate to improve productivity, reduce costs and environmental impact

-  **100% biocompatible**
-  **Environmentally friendly**
-  **Free of heavy metals**
-  **Hypoallergenic**
-  **It works at a low temperature while maintaining the elasticity and flexibility of the piece**



light-greyZ Light grey

brownZ Bronze

With Light-greyZ and BrownZ the world of luxury and fashion comes into a new aesthetic and technical dimension



Technical features

- Type of coatings: **multilayer arcDLC + PVD + PACVD 2**
- Hardness last layer: between **1000 HV and 2000 HV**
- **Excellent adhesion**
- **Very high homogeneity** of the coating
- Possibility of property adjustment based on specific request
- **Colour customisation**
- **Excellent resistance to UV rays**



dianoir[®] Anthracite

dianoir[®] G4 Deep black

Highest aesthetical requirements combined with superior properties regarding scratch and wear resistance




Technical features

- The corrosion and high wear resistance of dianoir[®] allows the **use in challenging environmental conditions**.
- The **non-toxic process** and the **biological compatibility** are optimal properties to use dianoir[®] and dianoir[®] G4 in contact with human skin
- **Perfect adhesion**, thanks to a special intermediate layer
- **100% Swiss Made**: dianoir[®] is made completely in Switzerland with a patented Swiss coating process.
- **Excellent adhesion on brass, stainless steel and titanium alloy** components
- **Very high homogeneity** of the coating
- **Excellent resistance to UV rays**
- **Dianoir G4** multilayer arcDLC + PVD + PACVD coating
- Hardness last layer Dianoir G4: between **1000 HV and 2000 HV**
- Possibility of property adjustment based on specific request
- **Colour customisation**



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