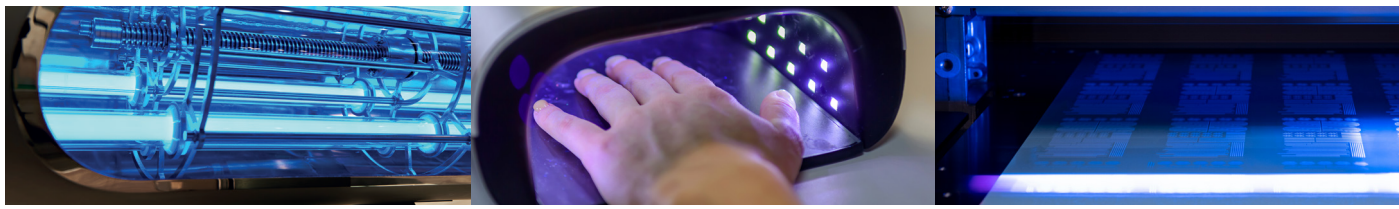
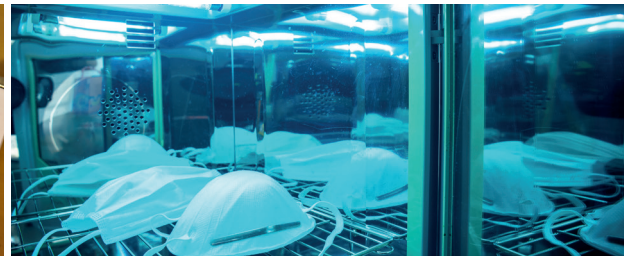
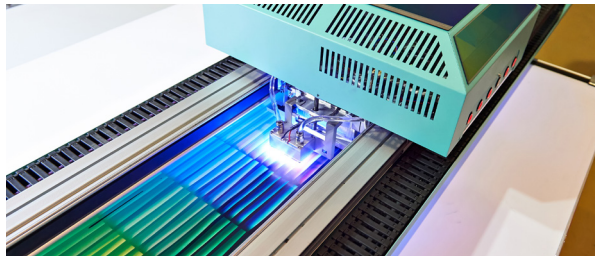


BEYOND THE SPECTRUM
OF VISIBLE LIGHT



vega[®]UV





What is UV? Ultraviolet radiation is invisible to human eyes, but plays an important role in many physical and chemical processes. Therefore it finds various applications in the industry and in scientific research.

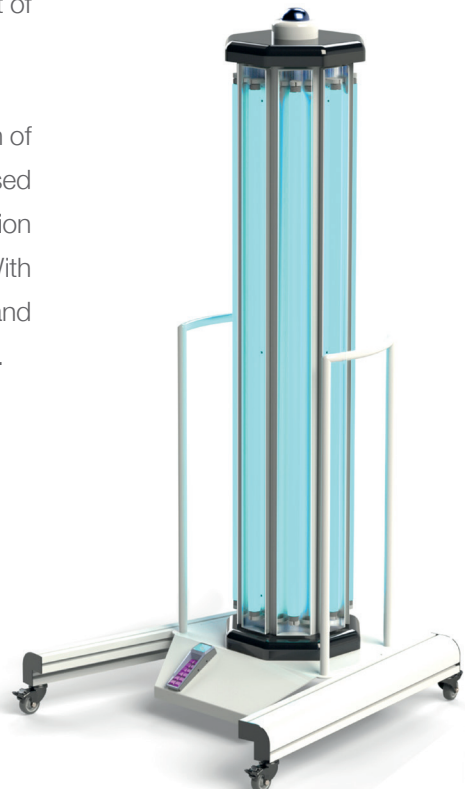
Where to use vega[®]UV? Almecco developed three different types of **vega[®]UV** surfaces, each of them having its own areas of application:

vega[®]UV is widely used in curing processes, where the energetic UV radiation is used to initiate photochemical reactions. Several types of inks, coatings and adhesives contain special additives that cause polymerization when exposed to ultraviolet light. The high reflectance of **vega[®]UV** can help improve the efficiency of these processes.

vega[®]UV-A is suitable for tanning lamps. UV-A light sources can make certain substances visible by causing fluorescence, for example in forensic applications and in the evaluation of gems and art pieces. Many insects can see near UV, so insect traps use these wavelengths to attract them.

vega[®]UV-B finds application in the medical field, for example in light sources for the treatment of psoriasis and other skin conditions.

vega[®]UV-C accelerates the sanitizing action of UV rays. Because of its reflectance, it is used to increase the efficiency of UV light sterilization systems for environments and objects. With sufficient doses, UV-C is a very reliable, fast and environmentally friendly disinfection method.





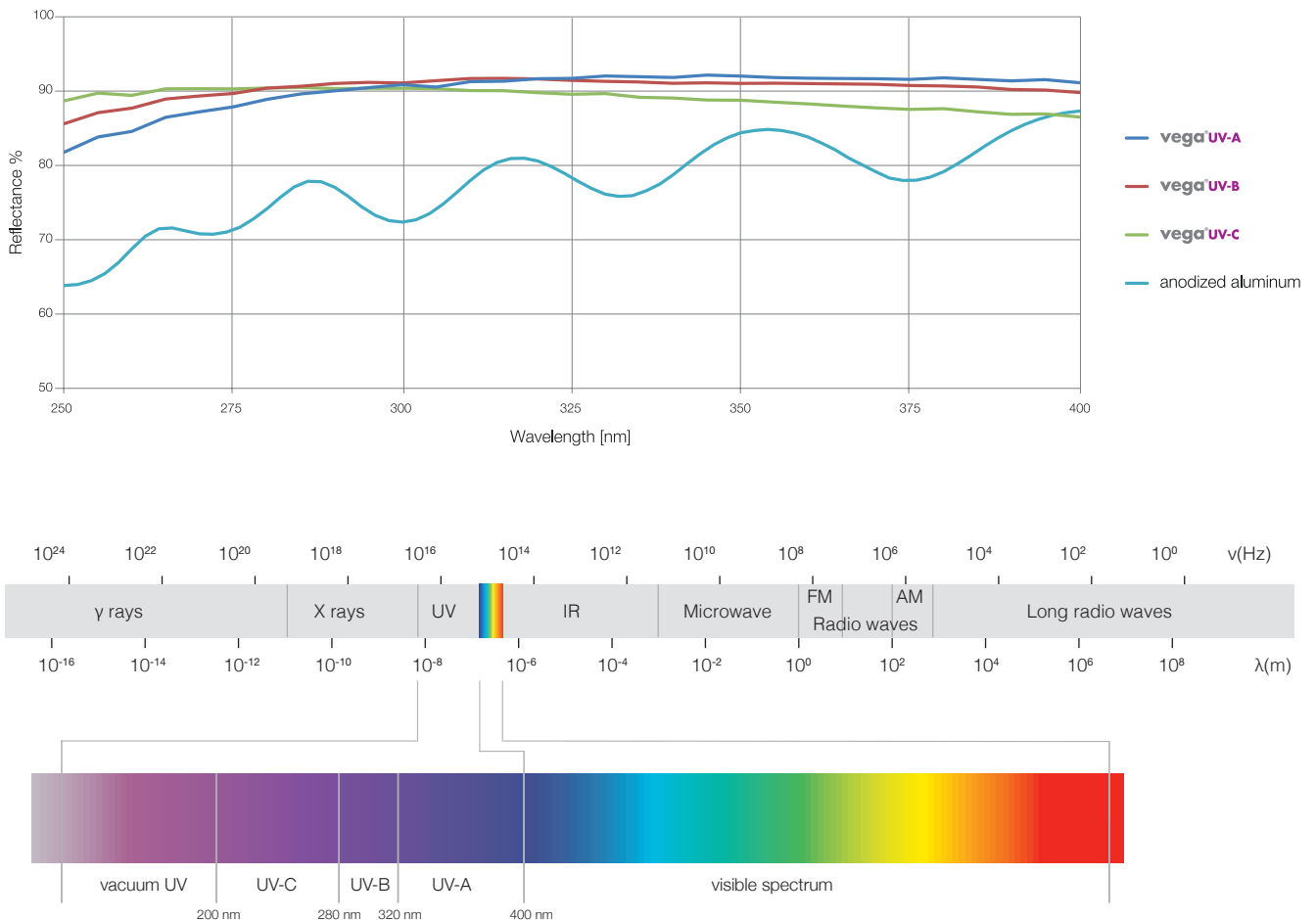
When used in a suitable application, **vega^{uv}** materials offer a performance improvement compared to the typical polished or anodized aluminum reflectors. **Why vega^{uv}?**

In many UV applications the dose of radiation is a key parameter. With a better reflector, the required dose can be reached more quickly or using less powerful sources, thus improving efficiency.

vega^{uv} reflective aluminum surfaces can be used as reflectors to channel the output of UV sources. They can also be used to cover the internal walls of devices and reduce unwanted absorption.

To considerably improve the effectiveness and efficiency of the appliances, Almeco's optical engineers can support you in the development and production of reflectors to optimize the distribution of UV radiation by concentrating it where it is needed.

COMPARISON REFLECTANCE SPECTRA OF DIFFERENT MATERIALS



TECHNICAL DATA

OPTICAL VALUES

VegaUV-A: reflectance @ 360 nm	92 ± 2%
VegaUV-B: reflectance @ 300 nm	92 ± 2%
VegaUV-C: reflectance @ 280 nm	91 ± 2%
VegaUV-C: reflectance @ 270 nm	91 ± 2%
VegaUV-C: reflectance @ 254 nm	90 ± 2%

AVAILABLE SIZES

THICKNESS [mm]	0.30 – 0.40 – 0.50 – 0.70 – 0.75 – 1.0
WIDTH [mm]	≤ 1250mm



We contribute to sanitize the environment with quick and sustainable solutions.



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