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CCR 150

TiO_2 - UV Absorber

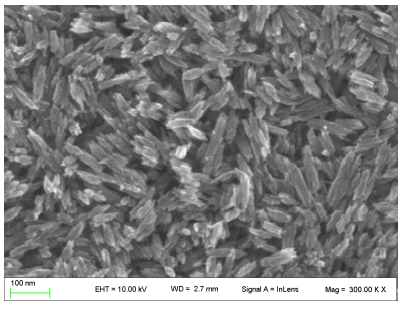
CCR 150 is a stabilized aqueous suspension of ultrafine Titanium dioxide (TiO_2) with excellent UV absorption properties. Our applied proprietary particle design- and coatings- technology is the basis for the premium product performance in a wide range of applications where UV protection is required.

Properties	Designed and optimized for the use as high efficient UV absorber: ▪ Ultrafine TiO_2 without pigmentary properties. ▪ Highly stabilized, neutral pH, slightly brownish aqueous suspension. ▪ Rutile crystal structure. ▪ Functionalized surface through inorganic coatings. ▪ Excellent UV absorber, with high transparency.
Applications	Main applications are: ▪ Transparent coatings providing long term UV screening for various substrates (wood, plastics, etc.). ▪ As a supplement to plastics in order to enhance their physical and chemical characteristics. ▪ Transparent plastic foil for food packaging. ▪ UV protection in polymers.

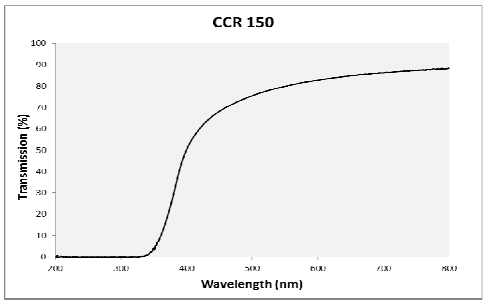
Product characteristics (typical)

TiO_2 content	Internal method	15 - 17 %
Density	Internal method	~ 1.1 g/cm^3
pH	Internal method	6 - 8
Crystallite size (Scherrer)	Internal method	~ 10 nm
Specific Conductivity	Internal method	< 1 mS/cm
Surface treatment	Internal method	Al_2O_3 , Fe_2O_3
Specific surface area	Internal method	~ 140 m^2/g

SEM image & Performance chart



SEM image of the CCR 150



Preparation method: The 200 microns liquid films were prepared from water based wood coating containing 0.6 % of active component. The films were dried on room temperature for 24 hours. Final step, the transmitted light on UV-Vis spectrophotometer was measured.

Absorption curve of the CCR 150

Packaging & Handling	▪ Available in 50 L (60 kg) or 150 L (170 kg) plastic drums. ▪ Handling in accordance with the CCR 150 Safety Data Sheet. ▪ Shelf life: at least 2 years from the date of production. ▪ When stored, avoid freezing and overheating. ▪ Be sure to mix before use (after mixing viscosity will be lower).

The information provided in this Technical Data Sheet (TDS) is, to the best of our knowledge. Since the conditions of use are beyond our control no warranty is given or to be implied of such information.