

Titanium dioxide PRETIOX UVS30

MANUFACTURER / SELLER

PRECHEZA a.s.
nábř. Dr. Edvarda Beneše 1170/24
750 02 Přerov, Czech Republic
tel. + 420 581 253 837
fax + 420 581 253 830
precheza@precheza.cz
www.precheza.cz

PRODUCT INFORMATION

Typ	Surface treated titanium dioxide (nano)
Crystalline structure	Rutile
Mean crystal size	40 nm
EC TARIC code	3206 11 00
Delivery form	White powder
Packaging	Plastic bags 20 kg net, box 5VVL
Storing	Original packaging, dry and covered storages

Preservation of processing properties 36 months since the date of manufacture is guaranteed by the supplier.

RECOMMENDED APPLICATION

Sun protection creams and lotions.

Lipsticks and make-ups with additional sun protection function.

INCI name	CAS No.	EINECS No.	Chemical formula
Titanium dioxide (nano)	13463-67-7	236-675-5	TiO ₂
Silica	7631-86-9	231-545-4	SiO ₂
Alumina	1344-28-1	215-691-6	Al ₂ O ₃

TECHNICAL DATA - uncoated nano TiO ₂	Unit	Value	Testing method
TiO ₂ content	[%]	≥ 99	SPTM: LM/TB.30.1
Rutile content	[%]	≥ 95	SPTM: LM/TB.7
Loss on ignition at 800 °C	[%]	≤ 13	SPTM: MPPVP/14.7
Water-soluble substances	[%]	≤ 0.25	SPTM:LM/TB.1
Acid-soluble substances	[%]	≤ 0.5	SPTM:LM/TB.3
Residual solvents	no solvents used		
Lead (HCl soluble)	[mg/kg]	≤ 10	SPTM:LM/TB.8
Antimony (HCl soluble)	[mg/kg]	≤ 2	SPTM:LM/TB.8
Arsenic	[mg/kg]	≤ 1	SPTM:LM/TB.8.2
Mercury	[mg/kg]	≤ 1	SPTM:LM/TB.10
Cadmium	[mg/kg]	≤ 1	SPTM:LM/TB.8.1
Cobalt	[mg/kg]	≤ 5	SPTM:LM/TB.8.1
Nickel	[mg/kg]	≤ 5	SPTM:LM/TB.8.1

Median particle size, physical appearance, aspect ratio and volume specific surface are in accordance with
SCCS Opinion 1516/13 (Opinion on Titanium Dioxide, nano form).

TECHNICAL DATA - coated nano TiO ₂	Unit	Value	Testing method
TiO ₂ content (related to loss on ignition)	[%]	≥ 79	SPTM: LM/TB.30
SiO ₂ content (related to loss on ignition)	[%]	4.0 - 6.0	SPTM: LM/TB.6
Al ₂ O ₃ content (related to loss on ignition)	[%]	4.0 - 6.0	SPTM: LM/TB.6
Loss on ignition at 800 °C	[%]	≤ 13	SPTM: MPPVP/14.7
pH of water suspension		7 - 10	SPTM:LM/TB.35
Specific surface	[m ² /g]	40 - 60	SPTM: LM/TB.9
Photocatalytic activity	[%]	< 10	SPTM:MPPVP/14.6

MICRIBIOLOGICAL PURITY	Unit	Value	Testing method
Bacteria	[CFU/g]	< 100	ČSN ISO 11930
Moulds	[CFU/g]	< 100	ČSN ISO 11930
Yeasts	[CFU/g]	< 100	ČSN ISO 11930
Pathogens	not detected		

REGISTRATION STATUS

EU: According to the Cosmetics Regulation (EC) No. 1223/2009, the active ingredient TiO₂ (nano) in PRETIOX UVS30 is permitted as UV-filtter (Commission Regulation (EU) 2019/1857, Annex VI, reference no. 27) in maximum concentration of 25 %. PRETIOX UVS30 is processed under special technological conditions in order to fulfill the basic principles of the SCCS opinion 1516/13 - Opinion on Titanium Dioxide (nano form).

USA: TiO₂ Category I, Sunscreen Drug Products for Over-The-Counter Human Use; Final Monograph: May 21, 1999.

Maximum authorized concentration: up to 25 %.

Complies with the US Pharmacopoeia 43/2020 (UV Attenuation Grade)

Safety Data Sheet is available on www.precheza.cz