



Remove pesticides, unwanted color, and haze from your cannabis/hemp extracts

FLORISIL[®]



Provide your customers high quality, cannabis and hemp extracts and concentrates that are free of many widely-used pesticides. You can trust Florisil[®] a synthetic amorphous magnesium silicate and an established industry standard for adsorbing pesticides and other undesirable contaminants to produce clearer and more attractive products.

- Effectively remove many commonly used pesticides and color
- Remove haze and obtain crystal-clear extracts
- Minimize loss of your high-value components

FLORISIL[®]

Pesticide Removal From Cannabis and Hemp

Today cannabis and hemp farmers are required to follow strict regulations on the use of pesticides. Regardless, cannabis and hemp extracts are often found to be contaminated with pesticides, leading to serious issues for manufacturers including profit loss. Since the 1960s, U.S. Silica's Florisil has been established as an industry standard for effective pesticide adsorption from agricultural, environmental and other analytical samples. Florisil PR is excellent for pesticide removal from cannabis extracts - below are some results from recent studies.



Case Study: A contaminated cannabis extract (120.8 ppm of pesticides) was cleaned using Florisil PR. (125 g of cannabis extract was dissolved in an alkane, applied to a column of Florisil PR (1 kg), and eluted with additional alkane).

Florisil PR removed

98.2%

of pesticides from contaminated cannabis extract

Contaminated
Extract

120.8 ppm

After Florisil PR
Clean-Up

1.8 ppm

Case Study: A hemp extract was spiked with 53 regulated pesticides (>300 ppm). This spiked extract was cleaned using Florisil PR. (4 g of hemp extract dissolved in hexane was applied to a 40 g column of Florisil PR. The valuable components were eluted with hexane, and finally the pesticides were eluted with methanol for analysis).

44^{OF}53

pesticides were
eliminated from
the extract

Pesticides removed:

Acephate
Acetamiprid
Aldicarb
Azoxystrobin
Bifenazate
Boscalid
Carbaryl
Carbofuran
Chlorantraniliprol

Daminozide
Diazinon
Dichlorvos
Dimethoat
Ethoprophos
Fenoxycarb
Fenpyroximat
Fipronil
Flonicamid

Fludioxonil
Hexythiazox
Imazalil
Imidacloprid
Kresoxim-Methyl
Malathion
Metalaxyl
Methiocarb
Methomyl

MGK 264
Myclobutanil
Oxamyl
Paclobutrazol
Parathion Methyl
Phosmet
Piperonyl butoxide
Propiconazole
Propoxur

Pyrethrin I
Pyridaben
Spinosad
Spirotetramat
Spiroxamine
Thiacloprid
Thiamethoxam
Trifloxystrobin

* Pesticide testing run at a laboratory accredited by the Oregon Environmental Laboratory Accreditation Program

Florisil Amorphous Magnesium Silicate

		High Activation	Standard Activation	Low Activation
Mesh* (80 % of particles lie within this mesh range) <small>*ASTM number</small>	PSD microns (80 % of particles lie within the range)	Florisil PR Grade Pesticide Residue Analysis	Florisil A Grade	Florisil B Grade
16 - 30	1180 - 600		X	X
30 - 60	600 - 250		X	X
60 - 100	250 - 150	X	X	X
100 - 200	150 - 75		X	X
-200	< 75		X	X



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For more information about *Florisil*, contact your sales representative or visit epminerals.com



www.EPMinerals.com
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