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BLACK CUMIN OIL,PRESSED **MATERIAL SPECIFICATIONS**

PRODUCT DESCRIPTION: Pressed Black Cumin Oil is obtained by careful mechanical pressing of *Nigella sativa* L. (*Ranunculaceae*) seed with subsequent filtration, but without further treatment (e.g. deacidification, bleaching deodorization). The plant is cultivated in Southern Europe and Western Asia. Apart from oil production, the seeds are also used on pastries (e.g. flat bread). The clear, fatty oil is of a green-brownish color, slight spicy odor and hot taste. It contains about roughly 0,5 and 1,5% essential oils.

<u>PROPERTIES</u>	<u>SPECIFICATIONS</u>
Density at 20° C	0,916 - 0,924
Refractive Index at 20° C	1,470 - 1,473
Acid value	ca. 30*
Iodine value	115 - 130
Saponification value	182 - 197

*The value given is not caused by the fatty oil, but by the content of essential oils and may therefore differ considerably.

FATTY ACID COMPOSITION:

Myristic acid	C14:0	<1,0%
Palmitic acid	C16:0	10,0 - 14,0%
Palmitoleic acid	C16:1	<1,0%
Stearic acid	C18:0	<4,0%
Oleic acid	C18:1	20,0 - 30,0%
Linoleic acid	C18:2	50,0 - 60,0%
Linolenic acid	C18:3	<4,0%
Arachidic acid	C20:0	<1,0%
Gadoleic acid	C20:1	<1,0%
Eicosadunoic acid	C20:2	<3,5%
Erucic acid	C22:1	<1,5%

SHELF LIFE: 18 Months

STORAGE: Light protected, not above room temperature, in tightly sealed containers (nitrogen blanketed).

USAGE: The fatty oil contains about 70% unsaturated fatty acids, valuable fat components such as sterins and vitamin E and about 1% essential oils. Thus it is considered as one of the high grade nutrition supplements. Various essential oil components such as thymochinon are said to have immunological and metabolism regulating effects (allergy treatment). In this context, the traditional respectively homoeopathic application has time-tested Black Cumin Oil in the treatment of lung, liver and stomach discomfort.

This specification was developed with utmost care based on up-to-date information available, but should also be scrutinized by the recipient. It does not release him from checking the quality of goods delivered with proper diligence.

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