

SOME GENERAL INFORMATION ABOUT FINOLA

FINOLA is an oilseed hemp variety that was developed in Finland. We began this work in 1995, under the breeder's code FIN-314. The variety name is correctly spelled with all capital letters. The EU Plant Variety Rights were granted for the FINOLA variety in 1999. FINOLA was accepted onto the Canadian list of hemp cultivars in 1998, where it has remained to this day. FINOLA was eventually admitted to the EU list of hemp cultivars, after the category of oilseed hemp was created in November of 2003. Before this time, only fiber hemp varieties were recognized. FINOLA was the first industrial oilseed hemp variety to be registered in Canada and the EU. FINOLA has been cultivated in the United States since 2014.

Crop Description

FINOLA is short, dioecious, auto-flowering and early maturing hempseed crop. The grain (called "hempseed") is harvested by a conventional combine. In terms of grain yield, it is the most productive variety for grain. A record grain yield of 3000 kg/Ha was produced in Alberta, Canada. Organic farmers should not swath fields that have been fertilized with un-composted manure! Up to 5-7 tons/Ha of straw may be produced from this variety. FINOLA grows best in continental and temperate regions, between latitudes 40° - 60°. Irrigation is recommended in drought prone areas. FINOLA's high grain production, ease of harvest, sweet nutty taste and unique oil profile make it the oilseed crop of choice for both foods and feed.

Rich in Oil and Protein

Hempseed oil is a rich source of polyunsaturated *omega*-3, -6 & -9 fatty acids, and the oil typically accounts for 30-35% of the seed weight. Hempseed also contains a high quality vegetable protein (25%) that is easily digested, plus carbohydrates (30%), moisture, vitamins, minerals, phytosterols and polyphenols. In a botanical sense, hempseed is a very small nut with a delicious nutty taste. Click [here](#) for more on FINOLA's hempseed nutritional profile.

Unlike other industrial oil seeds and seed meals, raw hempseed lacks anti-nutritional factors that are found in soya (protease inhibitors), rapeseed (glycosinolates), and linseed flax (cyanogenic glucosides). Hempseed and hempseed meal can be safely fed to all ruminants, pigs, fish and birds. Horses benefit from 2-3 dl of hempseed meal/day. Dogs enjoy hempseed oil, and benefit from 2-3 tbs/week. Cats do not enjoy vegetable oils. Most birds, squirrels and other rodents will aggressively eat whole hempseed. Hens fed whole hempseed, seed cake, oil sediment or hempseed oil will produce fine tasting *omega*-3 eggs.

Hempseed oil is highly unsaturated, with an optimal metabolic balance of *omega*-6 and -3 essential fatty acids (EFAs). This high degree of unsaturation is also useful in certain industrial products, for example; as a drying oil in the production of specialty inks, paints and other technical coatings. A few percent of hempseed oil in conventional diesel fuels will lower the solidification point in very cold environments.

Uses for the fiber

Hemp fiber is about 50-70% cellulose and 5-7% lignin. This bast fiber is still used in a variety of commercial applications that range from rough non-woven insulations, bio-mats, geotextiles, nets, composites for construction and automotive industries, tea bags, cigarette papers and other specialty papers. The whole, unprocessed stalk is about 35-40% cellulose and 15-20% lignan. As a simple non-woven material, the fiber and biomass make excellent

animal bedding, geotextiles and other geo-remediation products, compost substrates and hempcrete- a light construction material made of hemp hurds (shives) mixed with water and lime or cement. FINOLA is dioecious, with both male and female plants, so the fiber quality is not even, and may not be suitable for woven applications.

Finola Ltd. is a limited liability corporation that maintains the FINOLA oilseed hemp variety and its Plant Variety Rights. In Finland, our company name is written as Finola OY. Our main product is OECD certified FINOLA planting seed. <http://www.finola.fi>

Finola® is a registered trademark for food products made from FINOLA hempseed, such as Finola® Hempseed Oil. You may purchase and grow certified FINOLA planting seed, and then produce your own products, but please do not sell or promote your products under the Finola® trademark without prior agreement.

Can FINOLA be used for drug purposes? No. Since 1995, many determined individuals and numerous government agencies have consistently confirmed that the THC levels in FINOLA are far too low for illegal drug purposes. Instead, mature FINOLA female flowers produce respectable amounts of CBD (cannabidiol), a non-psychoactive polyphenol with potent antioxidant properties. For this reason, FINOLA has become the industrial variety of choice for CBD production.

Hemp cultivation still suffers from the same legal restrictions that apply towards drug-*Cannabis* in some parts of the world. In other places, hemp continues to be a thriving legal business. Be sure that you are fully informed about your local laws and customs before importing viable seed into your country, and be aware of potential subsidies or penalties for the cultivation of hemp in your country. Also, please understand that **we have very limited resources to advise on matters of legislation or general agriculture**. Our consulting time is generally limited to those who have already purchased certified FINOLA planting seed. Free and useful information on various aspects of hemp and hempseed are posted on the Finola web pages- please have a look: <http://www.finola.fi>

For US growers, please be sure to have some sort of written documentation from your local State Agricultural Department before contacting us. Also, before calling, notice the difference in time zones between the US and Europe. I live in Finland, which is 8 hours ahead of your Central Standard Time. In other words, your morning time is our evening time.

New customers, please do not call without making an appointment by text or e-mail.

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