

Vegeta

Biodegradable oil
immersed transformers

Schneider
Electric

Schneider Electric confirms its commitment to promote sustainable development by offering, in addition to its already wide product offer, an environmentally friendly Vegeta transformer. Available in a large range of powers and insulation ratings up to 25 MVA and up to 72.5 kV, this vegetable oil solution allows customer to invest today in products which are compatible with an ecological future.

> Environmentally friendly and adapted to sensitive area

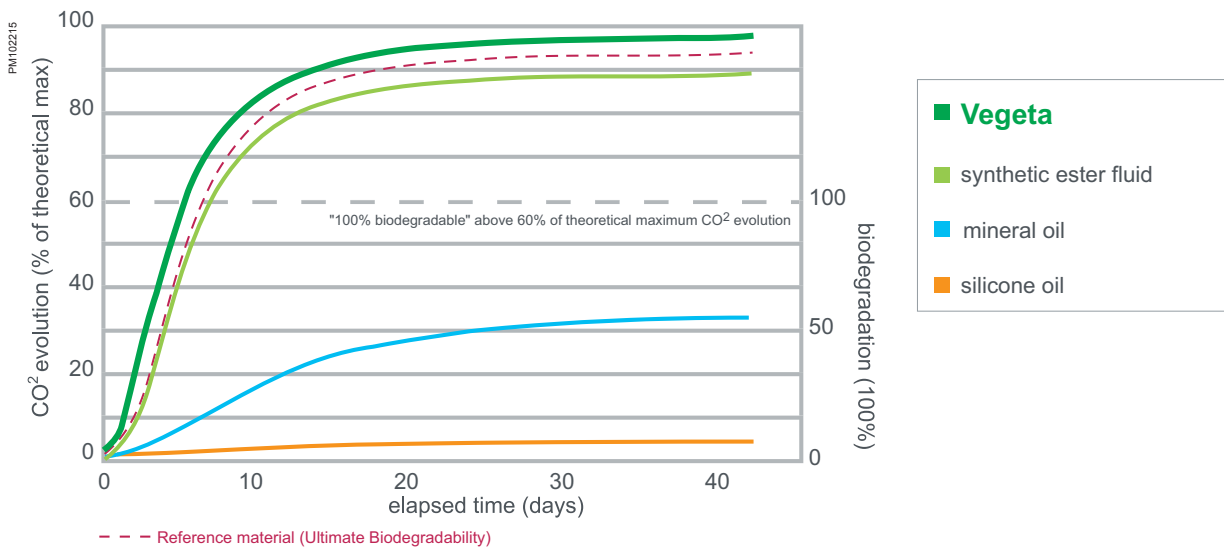
With natural ester-based biodegradable vegetable oil as the dielectric medium, Vegeta oil immersed transformer becomes one of the cleanest types of product available on the market today.

The vegetable oil is specifically formulated to be safe for people and the environment. It is made of food-grade seeds and is not listed as hazardous by international authorities such as EPA (Environmental Protection Agency) and OSHA (Occupational Safety and Health Administration).

This technology is biodegradable and non-toxic with a superior back-to-nature recycling rate of more than 99%.

Vegeta has been assigned a water hazard classification of zero, which means it is also eligible for use in areas where stringent environmental restrictions apply (water points, fields and forests).

Aerobic Aquatic Biodegradation



Vegeta - 160 kVA, 15 / 0,4 kV

> Higher sustainable efficiency

Vegetable oil has a better environmental and health profile than conventional mineral oil.

Vegetable oil has the advantage of being biodegradable, so oil spill management solutions are made easier. Its unique ability to absorb moisture contained in aging paper can extend insulation life by a factor of as much as five.

It also chemically helps to prevent long cellulose paper molecules from scission (i.e. aging) due to heat exposure. These properties can result in an increase of overloading capability and longer transformer insulation life. The results are lower lifecycle costs and better use of your assets.

This solution is also perfectly adapted for retrofilling existing liquid-filled transformers.

> Less flammable product

Whatever its origin, Vegeta' dielectric liquid has a fire point above 300°C and then, according to IEC 60076 Standard, is classified in the less-flammable dielectric coolant category (K Type) as a fire-resistant fluid.

Thus the dielectric liquid does not contribute to or increase spread of an external fire and the products of combustion are non toxic.

Vegeta is consequently particularly well adapted to installation in hazardous industrial areas with elevated fire risk levels.

Schneider Electric has important references for this application, with many vegetable oi-filled transformers already in service around the world: Oil & Gas off-shore installations, Steel plant, Wind farm, etc...

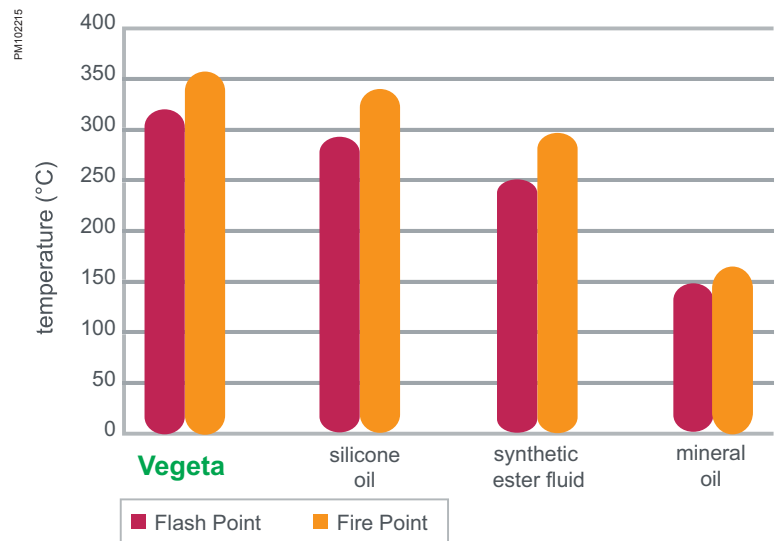


Vegeta - 100 kVA, 20 / 0.4 kV



Vegeta - 250 kVA, 20 / 0.4 kV

Flash and Fire Point of Dielectric Fluids



> Customer benefits

- ✓ An active eco-citizen approach
- ✓ No risk for people's health
- ✓ Enhanced fire behaviour
- ✓ Increased overload withstand
- ✓ Enhanced fire behaviour



Vegeta Atex - 8 / 10 MVA, 11 / 3.3 kV



Make the most of your energy™

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