

## DENAX DPG OIL POWDER

Active substance	
Chemical name	1.3-diphenylguanidine
Synonyms	N.N-diphenylguanidine; Diphenylguanidine; DPG; Melaniline
CAS	102-06-7
EINECS	203-002-1
Molecule	(C <sub>6</sub> H <sub>5</sub> NH) <sub>2</sub> C:NH
Formula	C <sub>13</sub> H <sub>13</sub> N <sub>3</sub>
Molecular weight	211.266 g/mol
Specifications	
Content of DPG	min. 96.50 % w/w
Moisture	max. 0.50 % w/w
Ash at 760°C	max. 0.40 % w/w
Melting point	146.00°C-150.00°C
Oil Content	1.00-2.00 % w/w
Rest on sieve: 0,071 mm	max. 0.30 % w/w
Rest on sieve: 0,2 mm	max. 0.05 % w/w
Appearance	White to slightly pink powder.
Expiry	2 years from production date if storage conditions are observed.
Properties	
Solubility	Soluble in acetone, ethanol, benzene, acids; insoluble in water.
Stability and reactivity	Stable under normal temperature and pressure. Decomposes above 170°C (flash point).
Application	
Rubber industry	Medium fast alkaline vulcanization (secondary) accelerator. Used in production of technical rubber: tires, shoes, belts, etc. Not appropriate for rubber used in food industry (bitter taste).

### Packaging:

Paper bag 15 kg/600 kg netto, Bigbag 500 kg netto

### Safety information:

The substance is harmful to health. Use personal protective work equipment as indicated in the safety data sheet. Do not eat, drink and smoke during its handling. Prevent dispersion of dust (keep < 2mg/m<sup>3</sup>). Produces toxic fumes when burned. More information can be found in the MSDS.

### Transport:

ADR/RID/IMDG: Class 6.1

UN number 2811

Packing group III

**IMPORTANT:** The technical data herein are subject to change without notice.  
Buyer assumes all risk of use, storage, and handling of the product.

**APPROVED:** 07/2024 Head of QC: Ing. Jana Vágnerová

**VERSION:** 06-12072024