

# Technical Data Sheet

## ProFlame®P321

**Product name:** Aluminium Diethylphosphonate (ADP)

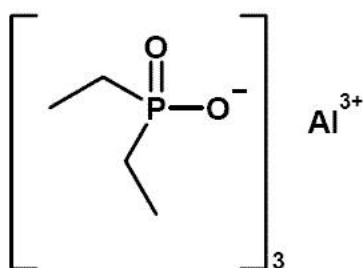
**Our Brand:** ProFlame P321

**Molecular Formula:** (C<sub>4</sub>H<sub>10</sub>O<sub>2</sub>P)<sub>3</sub>.Al

**Molecular Weight:** 390.27

**CAS NO. :** 225789-38-8

**Chemical Formula:**



### Description:

ProFlame-P321 is a halogen-free flame retardant based on aluminum salt of organic phosphoric acid. It is a white powder with low dust, high hydrophobicity, heat-resistance and non-migratory.

P321 has excellent flame retardant efficiency when used with synergistic nitrogenous flame retardants such as APP, MCA, MPP.....

### Tech Spec:

Items	Unit	Spec
P content	%(w/w)	23.0-24.0
Density	g/cm <sup>3</sup>	1.35
Bulk density	g/cm <sup>3</sup>	0.40-0.60
Moisture	%(w/w)	≤0.2
Initial decomposition temp.	°C	≥350
Average particle size (D50)	um	20-40

### Application:

P321 is widely used for high performance flame retardant engineering plastics such as polyester (PET, PBT) and PA (PA6, PA66, glass fiber reinforced and unreinforced), with excellent flame retardant performance, good physical and electrical properties.

Typically 13-16% of dosage is recommended, usually in combination of nitrogenous synergist, to achieve UL94-V0 (1.6mm thickness) for GF PA. Differences in formulation and processing conditions may result in different dosage of P321.

### Equivalent Brand:

Clariant: Exolit OP1230

### Package and Storage:

25KG paper bag with PE liner. Seal and store in dry, dust-free and cool place.

Minimum shelf life is 12 months from the date of shipping when stored according to the said conditions.

It is not dangerous cargo. You should handle the material according to the instruction described on MSDS. The MSDS is available from sales department once required. Our regular mark is printed on the surface of package in advance. You should inform our sales person in advance if you don't need this or have any special demand for mark.

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