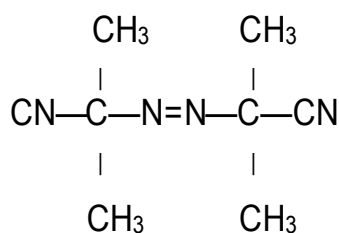


PEROXAN AZDN

High Polymers
Azo Initiators

Description: 2,2'-Azodiisobutyronitrile
98% , Powder

PEROXAN AZDN is used for the (co)polymerization of styrene, vinylchloride, vinylidenechloride, acrylonitrile, acrylates and methacrylates.



Molecular weight: 164,2
CAS No.: 78-67-1

Technical data: Appearance: white powder
Assay: min. 98%
Active nitrogen assay: min. 16,71%
Bulk density at 20°C: 500 kg/m³

Half life time: in chlorobenzene

t _{1/2}	10h	1 h	1 min
at	64°C	82°C	118°C

Storage: Maximum storage temperature (T_{s max}): 25°C
Storage stability as from date of delivery: 3 months

Azo compounds are more or less stable products but will decompose under the influence of heat. To minimize a loss of quality during storage, it is important that the recommended maximum storage temperature is not exceeded. If a minimum storage temperature is given, an undesirable process such as a solidification or phase separation, is known to occur below this temperature.

Thermal stability: SADT: 50°C
Emergency temperature (T_{em}): 45°C
Control temperature (T_c): 40°C

The SADT is the lowest temperature at which a self accelerating decomposition may occur. The emergency temperature is derived from the SADT. It is the temperature at which emergency actions have to be taken. The control temperature is the maximum temperature at which the product can be transported safely.

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Application: PEROXAN AZDN can be used for bulk, solution, suspension and emulsion polymerization of styrene, vinylchloride, vinylidenechloride, acrylonitrile, acrylates and methacrylates.

PEROXAN AZDN does not form oxygenated residues and does not cause oxidative degradation of pigmented or dyed polymer systems. For this reason, the color stability of transparent, dyed polymers is improved.

In acrylic paint manufacture, excessive grafting can be a problem when using peroxides. Because the cyano sec-butyl radical from PEROXAN AZDN shows less tendency to abstract hydrogen from a polymer chain than oxygen centered radicals, PEROXAN AZDN allows the production of resins with a low degree of grafting.

Packaging: 40 kg Drum

Major decomposition products: Nitrogen, Tetramethyl succinonitrile (TMSN), 2-Methylpropanenitrile, Methacrylonitrile

Safety and handling: Please refer to the material safety data sheet (MSDS) for information concerning safe storage, use and handling of PEROXAN AZDN. This information should be thoroughly reviewed prior to acceptance of this product. The MSDS is available for downloading at www.pergan.com or through contacting Pergan directly.

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