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DI-OCTYL ADIPATE (DOA)

PROPERTY:

DOA is widely used as a **cold-resistant plasticizer** to improve low-temperature flexibility of PVC formulations, especially in combination with general-purpose plasticizers such as DOP and DBP. It appears as a colorless, transparent oily liquid. DOA is well-known for its excellent low-temperature flexibility, good light resistance, and pleasant handfeel. It also exhibits high plasticizing efficiency at high temperatures, low color change rate under heated conditions, and is compatible with a wide range of resins, including PVC, PVC copolymers, polystyrene, and synthetic rubber.

APPLICATION:

DOA is used in **cold-resistant agricultural protective membrane, wire and cable insulation and sheathing (UL -30~40°C), refrigerator sealing, food wrapping film, thermo-shrink film**, artificial leather, plank materials, and water pipelines. Some rubber manufacturers partially replace rubber with DOA in rubber protective bearing covers and nitrile-like gloves, in the aim of reducing costs.

SPECIFICATION:

Item of Analysis	Unit	Value
Appearance		Transparent oily liquid without suspended substances
Color	Platinum-Cobalt No. \leq	20
Ester Content	% \geq	99.5
Flash Point	$^{\circ}\text{C} \geq$	190
Water Content	% \leq	0.15
Acid Value	% \leq	0.07
Density	(20°C), g/cm ³	0.957-0.965

PACKING:

In iron drums, 190kg net weight per drum, total 80 drums (15.2MT) per 20' FCL, OR

In IBC tank, 950kg net weight per tank, total 20 tanks (19MT) per 20' FCL, OR

In flexibag, around 20-21MT per 20' FCL.

STORAGE/TRANSPORTATION:

If stored in tanks, purge N₂ to prevent moisture absorption.

If stored in drums, keep the container sealed when not in used.