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Hyflon® AD

Dissolution Guidelines

The information in this document is designed to provide instructions for the preparation of Hyflon® AD solutions, starting from the powder polymer and using Galden® D02TS as fluorinated solvent.

Table 1: Hyflon® AD powder grades intrinsic viscosity

Grades	Intrinsic Viscosity	Unit
Hyflon® AD 40H	120 ± 30	cc/g
Hyflon® AD 40L	40 ± 10	cc/g
Hyflon® AD 60	40 ± 10	cc/g

First Step

Define the concentration of the solution to be prepared taking into account the following solubility limits for Hyflon® AD powder in Galden® D02TS at room temperature:

Table 2: Hyflon® AD powder grades maximum solubility by weight

Grades	Max. Solubility by Weight	Unit
Hyflon® AD 40H	3.5	%
Hyflon® AD 40L	12	%
Hyflon® AD 60	10	%

Second Step

Once the concentration of the final solution is set, weigh the corresponding quantities of Hyflon® AD powder and solvent.

Half of the Hyflon® AD powder must be added to the previously heated solvent (100 °C with reflux condenser). The whole process must be carried out under mechanical stirring at 100 °C.

Third Step

Gradually add the remaining powder amount to the solution once the solution appears completely transparent and keep the temperature constant while stirring until transparency is observed.

Once the process is finished, turn off heat and continue stirring the solution until room temperature is reached.

Fourth Step

Discharge the solution and filter it accordingly to your process requirements.

Suggestion for Filtration

Hyflon® AD 40L and Hyflon® AD 60 solutions are usually filtered using a mesh of between 0.2 and 1 micron in size, Hyflon® AD 40H solutions, having higher viscosity, use a mesh size of between 0.6 and 3 micron. Solutions can be preheated (typically at 60 °C) in order to facilitate an easier process of filtration.

The procedure detailed above should be valid for all fluorinated fluids, with a boiling point of between 160 and 170 °C.

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