



Technical Data Sheet
Europe, Middle East, Africa and India

AQUASET™ TF-150

Acrylic Binder for Nonwovens

Product Description

AQUASET™ TF-150 is a thermosetting acrylic resin for industrial nonwovens.

Application and Advantages

AQUASET™ TF-150 is an acrylic solution polymer designed as a replacement for formaldehyde based resins such as melamine / formaldehyde, phenol / formaldehyde or urea / formaldehyde resins. This thermosetting polymer is recommended as a binder for industrial nonwovens, for example glass mats used as flooring reinforcements or insulation facers. At conventional use levels, the tensile properties and durability performance characteristics of AQUASET™ TF-150 are comparable to those of industry standard amino/phenol resins. Even after being subjected to the high temperatures often encountered in use, this polymer retains its strength characteristics. In contrast to amino/phenol resins, even at the high temperature needed for curing, this acrylic binder will retain its white colour. Also, unlike amino/phenol resins, AQUASET™ TF-150 does not have to be stored under refrigeration and can be kept at room temperature without concern about instability. Cure temperatures for AQUASET™ TF-150 are comparable to those for amino resins. However, to achieve maximum strength properties a temperature of at least 190°C is recommended. Flexibility of AQUASET™ TF-150 can be adjusted by addition of the reactive softener PRIMAL™ TF 100 at levels between 5 and 20 wt%.

Typical Properties¹⁾

Appearance	Clean amber solution
Solids content	53...55 %
Density	1.2 g/cm ³
Viscosity (Brookfield LV, spindle 2 @ 60 rpm, 25°C)	50 ... 500 mPa·s
pH	2.2 ... 2.7
MFFT	-

¹⁾ Please note that the values shown are typical values for your guidance. They are not to be taken as specifications and are subject to certain variability. Please consult the sales specifications for details.

Formulation Guidelines²⁾

If applicable, please use bold font for topic and normal font for explanation, like in example below. If not applicable, then please delete the section.

Latex Polymer Composition: ACRY SOL™ RM-2020 E Rheology Modifier is most efficient with hydrophobic latexes. This hydrophobicity may vary with the latex composition or the stabilising system.

**Additional
Information**

For more information you may call the following numbers:

International Toll-Free

00800-3-694-6367

International Toll-Free from:

Austria, Belgium, Denmark, Finland (prefix 990), France,
Germany, Hungary, Ireland, Netherlands, Norway, Portugal,
Spain, Sweden, Switzerland, United Kingdom.

EMEI Toll Call

0031-11567-2626

Italy Toll-Free National

00800-783-825

South Africa Toll-Free National

00800-99-5078

NOTICE: No freedom from infringement of any patent owned by Dow or others is to be inferred. Because use conditions and applicable laws may differ from one location to another and may change with time, Customer is responsible for determining whether products and the information in this document are appropriate for Customer's use and for ensuring that Customer's workplace and disposal practices are in compliance with applicable laws and other government enactments. The product shown in this literature may not be available for sale and/or available in all geographies where Dow is represented. The claims made may not have been approved for use in all countries. Dow assumes no obligation or liability for the information in this document. References to "Dow" or the "Company" mean the Dow legal entity selling the products to Customer unless otherwise expressly noted. NO WARRANTIES ARE GIVEN; ALL IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE ARE EXPRESSLY EXCLUDED.