

Aqueous Polyurethane Dispersion

## Technical Data Sheet

Name: Adwel® 1633  
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NO. WHSM\_1633  
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### Product Description

Adwel® 1633 is an aqueous anionic aliphatic polyurethane dispersion for 3D lamination industry. Adwel® 1633 has low heat activated temperature and the ability to crystallize rapidly. It's APEO, organotin and organic amine neutralizing agent free. Biocide: CMIT/MIT 3:1 49ppm and MIT 100ppm.

### Properties

1. Low heat activated temperature
2. Rapid crystallization
3. Excellent bonding strength

### Characteristic data\*

Property	Value	Unit	Method
Appearance	Milky white liquid		
Weight Solids	50±1	%	WHPU/T011-571-2017 (5cm,150°C,20min)
pH	6.0-9.0		GB/T 14518-1993
Viscosity	50-1500	mPa·s	GB/T 2794-2013 (Brookfield,LV,63#,30rpm)
Density	1.04-1.09	g/cm <sup>3</sup>	GB/T4472-2011
Activated temperature	60-65	°C	SP-WHSM-07-1030
MFFT	~10	°C	SP-WHSM-07-1017

\*These properties are typical but do not constitute specifications.

### Handling and Precautions

1. If the product needs to be diluted, we recommend deionized water must be used; Tap water may cause flocculation or demulsification.
2. If the product needs to be mixed with other products, compatibility and storage stability must be tested.

# Adwel<sup>®</sup> 1633



## Storage

The validity of this product is 6 months and performance must be assessed if the product exceeds the shelf life. The product should be stored above 5°C and below 35°C. Temperature below 5°C will cause viscosity increase or irreversibly damage. Prolonged storage at high temperature will have negative impacts on products and may cause sedimentation or coagulation. The product should be protected from direct sunlight with the integrity of the packaging to avoid skinning. It is strongly suggested to filter before further application as skinning or gel may form inevitably during storage and transport.

**Disclaimer:** Wanhua Chemical Group Co., LTD. recommends that customers should check with Materials Safety Data Sheet (MSDS) for details about safety instructions. We also suggest that you contact the suppliers of other materials used in our recommended formulations and consult appropriate health and safety regulations prior to use. The information contained herein is believed to be reliable. However, nothing in this technical sheet should be considered as a representation of warranty, express or implicit, regarding the product characteristics, application, quality, safety, merchantability or fitness for a particular purpose. Nothing contained herein is to be considered as permission, recommendation, nor as an inducement to practice any patented invention without permission of the patent owner.