Rapid Visco Analyzer

Model **MSXTDQ91SWISS** | Brand **Master Science** | Unit **Pc**



Rapid Visco Analyzer

The MSXTDQ91SWISS Rapid Visco Analyzer is a rotational viscometer designed for rapid testing of starch stirring and gelatinization characteristics. It is ideal for assessing starch quality in grains and crops such as wheat, corn, rice, sorghum, potato, and lotus root. The analyzer supports programmable temperature and variable shear rates, offering flexibility and precision for diverse testing needs.

KEY HIGHLIGHTS

- Multi-Language Support
- Export Options
- Integrated Knowledge Base
- Administrative Control
- Comprehensive Reporting

Request a Quotation
Contact us for pricing, configuration options and delivery details.

support@themsci.com
www.themsci.com

Scan to view online

Key Features

EFFICIENT HEATING AND COOLING SYSTEM.

Direct temperature measurement using a temperature sensor ensures high accuracy and repeatability.

THOROUGH AND EVEN MIXING

Special paddle geometry prevents starch granule settling, ensuring the sample is mixed evenly.

EASY AND CONVENIENT OPERATION

Short measurement time for efficient and user-friendly functionality.

Allows up to 20 extended analysis results, including viscosity at target speed, temperature, or time.

Multi-Language Support
Interfaces available in Chinese, English, Spanish, and French.

Export Options
Generate experimental results and curve graphs in Excel or PDF format.

Integrated Knowledge Base
Includes over 100 terminology analysis sets related to physical properties, rheology, thermodynamics, and national standard algorithms.

Administrative Control
Offers features like super administrator setup, non-editable reports, and traceability of experiments.

Comprehensive Reporting
One-click export of detailed experimental reports, including parameters, graphs, and results.

Additional Information
The MSXTDQ91SWISS is specifically tailored for quality determination in starch and grain-based materials. It serves industries involved in food processing, agriculture, and research laboratories for detailed rheological analysis.

Technical Specifications

PARAMETER	SPECIFICATION
Operation EnvironmentTemperature 10℃–45℃; Relative Humidity 10%–90%	
Heating ModeCopper metal block heating with overheat protection	
Test Program StepsUp to 128 programmable steps	
Sample Dosage2–3 g	
Heating SpeedUp to 15℃/min, program-controlled	
Cooling SpeedUp to 15℃/min, program-controlled	
Temperature Accuracy±0.3℃ (at 25℃)	
Temperature Range0–100℃	
Speed Range20–5000 rpm (computer controlled)	
Speed Accuracy±1% (160 rpm)	
Units of UsecP, RVU	
Viscosity Range20–50,000 cP (80 rpm); 10–25,000 cP (160 rpm)	
Viscosity Accuracy≤ ±3% (using S2000 oil, 5000 cP)	
Display4 rows × 20 characters	
Automatic AnalysisMax viscosity, attenuation, recovery value, gelatinization temperature, etc.	

Standard Accessories Included

- 220–230 V, 50 Hz
- Tower Lifting System: Stepper motor with lifting speed 0–10 mm/s
- Blade Rotation System: Brushless motor control