

Application Note

/// Viscosity measurement of tomato ketchup

PRODUCT

ROTAVISC me-vi Complete (0025000311),
HRC 2 control (0025004524),
DWB 600 (0020024575)

INDUSTRY

Food/ Nutrition

TASK / OVERVIEW

The task was to measure the viscosity change of ketchup over the speed range of 5 – 200 rpm. Ketchup is a shear thinning liquid - it gets thinner, the higher the shear rate.

EXPERIMENTAL SETUP

Viscometer	IKA me-vi
Spindle	SP 11
Sample vessel	DWB 600
Speed	5 – 200 rpm
Sample temperature	25 °C
Guardleg	Nein
Measuring time	–

SAMPLE MATERIAL

Ketchup



SAMPLE PREPARATION

The sample was preheated to 25 ° C

RESULT

°C	rpm	Viscosity
25 °C	5	33 200
	10	20 600
	20	12 400
	30	8700
	50	5780
	80	3963
	140	2500
	200	1875

