

# THIXCIN® R PC

## NATURAL RHEOLOGY CONTROL



### INTRODUCTION

THIXCIN® R PC is a derivative of castor oil that imparts a high degree of thixotropic thickening in cosmetics mineral, vegetable and silicones oils, as well as low-polarity aliphatic solvents. THIXCIN® R PC provides thixotropy and imparts good pay-off in stick products; improves product stability when used in the oil phase of emulsions; and can be used as a binder in pressed powder formulations.

### EFFICACY DATA

THIXCIN® R PC greatly enhances physical stability of formulations (emulsions or single oil phase formulations). It functions as a stiffening agent in solid product forms, such as lipsticks or hair styling sticks, while improving pay-off, providing added lubricity and a buttery feel. Special processing conditions ensure the most effective incorporation into cosmetic systems.

#### Incorporation guidelines

##### General

Add to the emulsion's oil phase or, in non-emulsion-based formulations, at the beginning of the dispersion process, preferably by pre-mixing the solvent or oil for 5 minutes before other components are added

High shear and proper temperature (dependent on solvent) to develop full properties

Hold activation temperature with high shear mixing for a minimum of 20 minutes

##### In liquids and oils

Heat to 50-65°C

Stirring while cooling down (No Stirring while cooling down = False body effect)

Use level are 0.2 to 0.8 % by weight of the system (or oil phase in emulsions)

##### In solid products

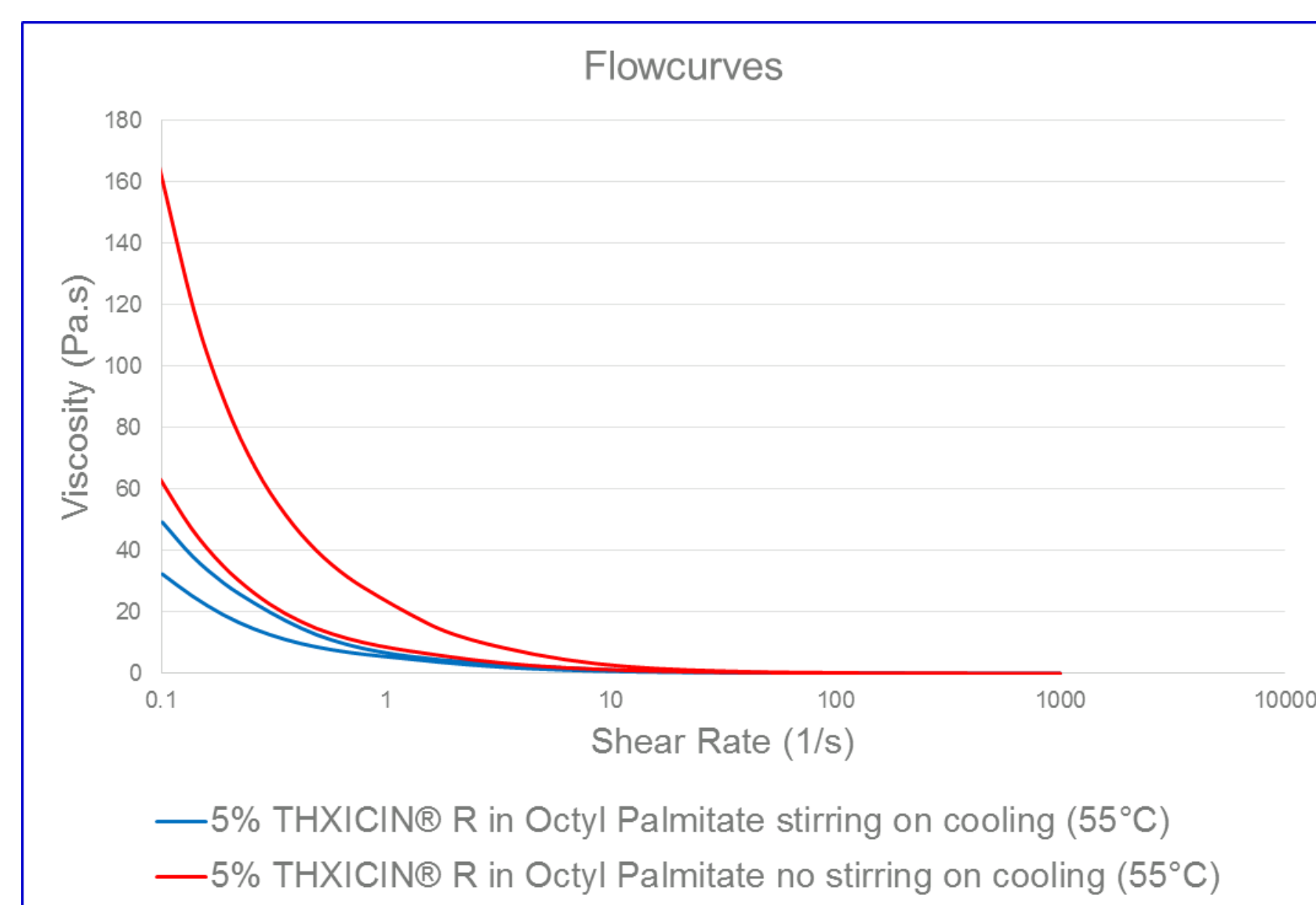
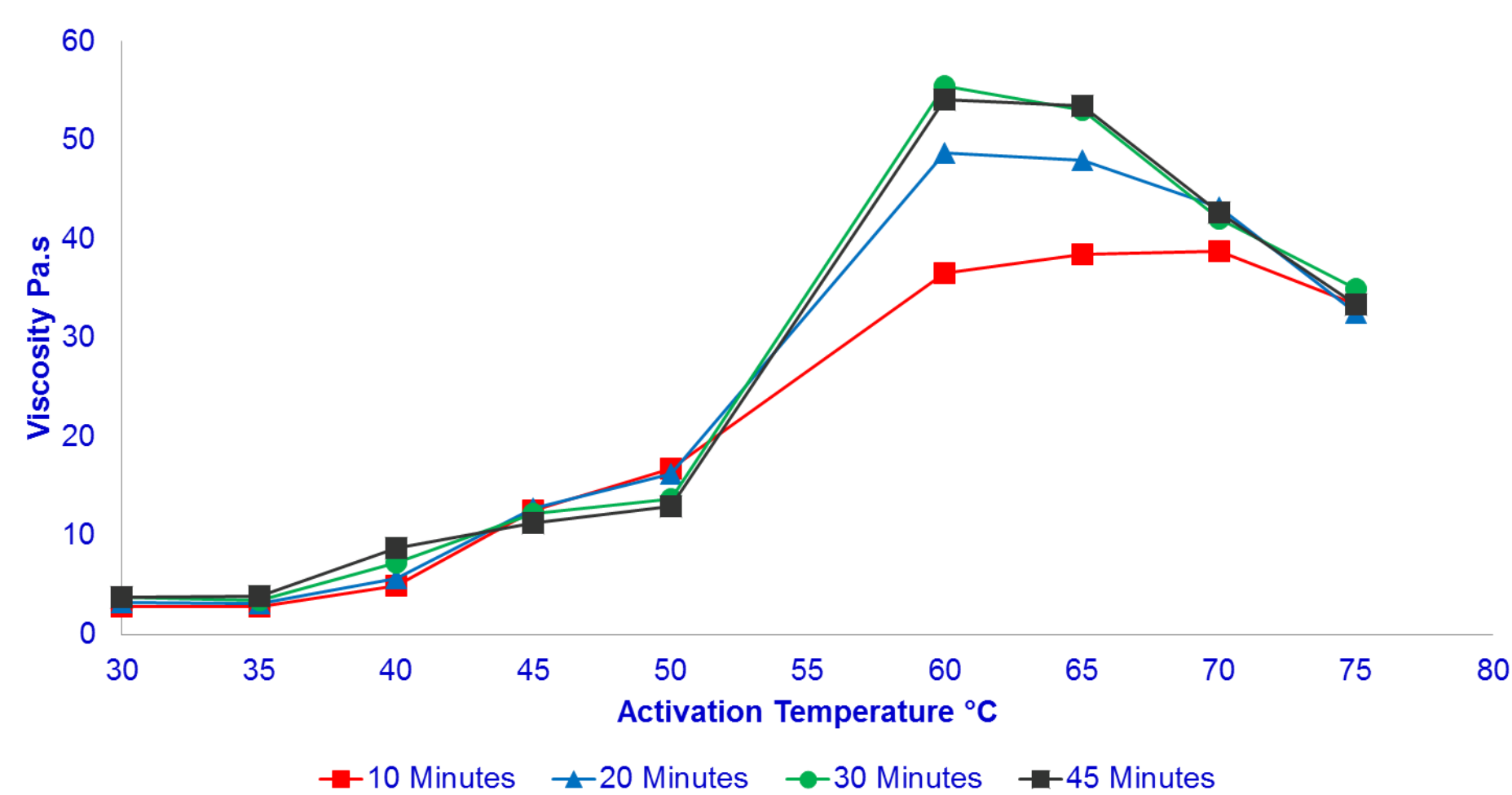
Heat above melting point : > 80-85°C (behaves more like a wax)

Formulation becomes thick/stiff, but applies like a liquid

##### In powders

Can be used as a binder in dry powder formulations

Use level (pressed powders, tablets, granules): 0.5 to 2.0 %



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