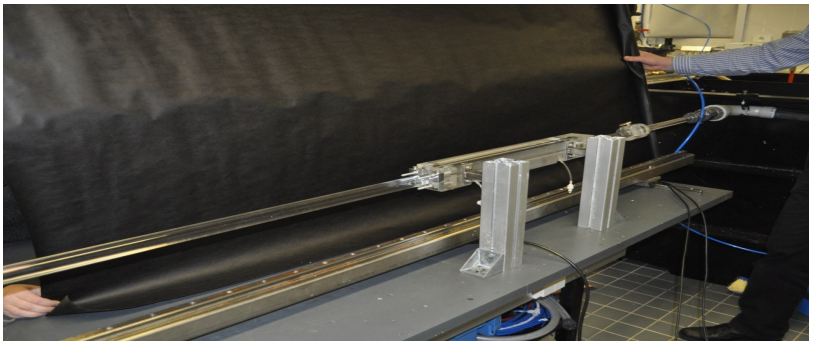
Project supported by COST - European Cooperation in Science and Technology

COST FP1005 "Fibre Suspension Flow Modelling"

Test CASE 1:

Geometry:

	D [mm]	L [mm]
1	15	135
2	21	235
3	16	500
4	26	1450



Fibres:

	Fibre length [mm]	Diameter [µm]	Corseness [mg/m]	Tex [g/km]
PET Polyester	5 4, 6			0.17 0.17, 0.33
Pine	2.05	22.0	0.206	
Birch	0.92	16.7	0.114	

Rheology:

Materials:

1. **Water**
2. **SRM 2490** (Standard Reference Material 2490, *Certification of the Rheological Behavior of SRM 2490, Polyisobutylene Dissolved in 2,6,10,14-Tetramethylpentadecane*)
3. **Birch, Pine** (VTT has 1000 kg of these fibres)
4. **Daicel NFC** (0.1%, 0.5%, 1.0%, 1.5%, 2.0%)

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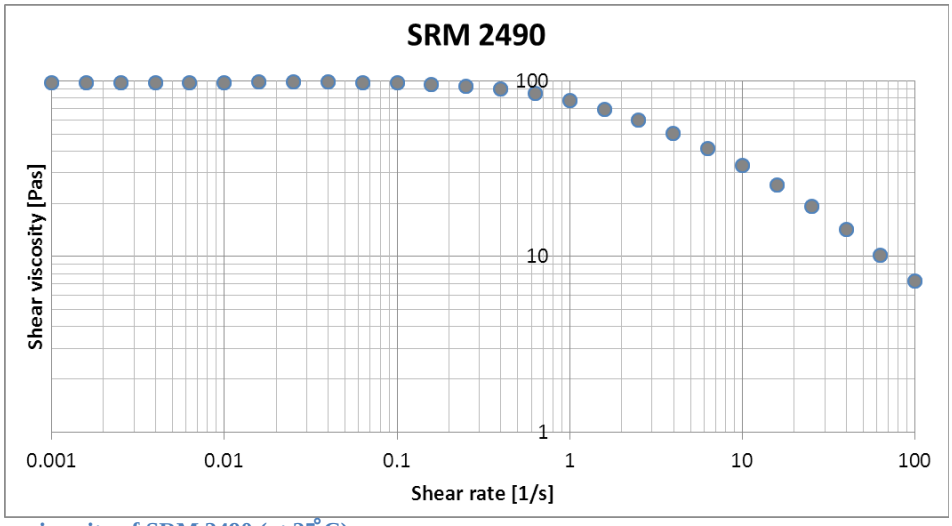

Figure . Shear viscosity of SRM 2490 (at 25° C)