























Fluid name	N1	N2	N3	N4	N6	Nat7.1	SG1	SG2	SI
$\rho_0 [{\rm kg \ m^{-3}}]$	999	999	1013	999	1000	999	1418	1393	1322
$\eta_0 $ [Pa s]	0.55	0.10	0.57	0.17	4.4	0.10	66.0	6.2	0.87
$\alpha_0 \ [10^{-4} \ \mathrm{K}^{-1}]$	1.18	1.17	1.66	1.17	1.24	1.17	5.44	5.35	5.39
$\kappa \ [10^{-7} \mathrm{m}^2 \ \mathrm{s}^{-1}]$	1.42	1.42	1.42	1.42	1.42	1.42	1.13	1.15	1.42
$ au_{diff} \ [h]$	78.2	78.2	78.2	78.2	78.2	78.2	98.3	96.6	78.2

Experiment	Fluid	$T_{lat}[^{\circ}\mathrm{C}]$	$T_{up}[^{\circ}\mathrm{C}]$	$T_{low}[^{\circ}\mathrm{C}]$	$T_m[^{\circ}\mathrm{C}]$	γ	Ra _{lat}	Pr
N1.1	Natrosol	$39.8 \pm 0.2^{*}$	$6.5\pm1.0^*$	$6.0\pm0.5^*$	-	1.0	4.5×10^6	3,900
N1.2	Natrosol	$49.7\pm0.3^*$	$6.5 \pm 1.0^*$	$6.0 \pm 0.5^*$	-	1.0	6.8×10^6	$3,\!900$
N2	Natrosol	$39.8\pm0.2^*$	$6.5\pm1.0^*$	$6.0\pm0.5^*$	-	1.0	2.5×10^7	700
N3	Natrosol	$39.8\pm0.2^*$	$6.5\pm1.0^{*}$	$6.0\pm0.5^*$	-	1.0	6.0×10^6	4,000
N4	Natrosol	$39.8\pm0.2^*$	$6.5\pm1.0^*$	$6.0\pm0.5^*$	-	1.0	1.4×10^7	$1,\!200$
N6	Natrosol	$44.7\pm0.2^*$	$6.5\pm1.0^{*}$	$6.0\pm0.5^*$	-	1.0	7.3×10^5	31,000
Nat7.1	Natrosol	29.3	7.7	6.5	13.7	1.0	8.9×10^6	$1,\!200$
SG1.1	GS6080	49.8	1.9	1.5	16	609.8	8.2×10^5	$196,\!000$
SG1.2	GS6080	49.9	11.0	10.8	21.5	125.2	1.2×10^6	111,000
SG1.3	GS6080	49.9	22.0	21.1	28.0	24.0	1.6×10^6	59,000
SI1.1	SI9566	48.8	20.9	20.9	27.6	9.9	5.3×10^7	$1,\!200$
SI1.2	SI9566	39.4	21.2	21.8	24.6	5.3	2.2×10^7	$1,\!800$
SI1.3	SI9566	$30.0\pm0.5^*$	$21.0\pm0.5^*$	$21.0\pm0.5^*$	-	2.5	7.7×10^6	$2,\!900$
SG2.1	GS6075	44.6	7.1	6.5	20.6	53.3	6.0×10^6	20,000
SG2.2	GS6075	49.5	2.7	1.8	21.2	148.8	7.7×10^6	19,600
SG2.3	GS6075	49.6	12.0	11.3	24.6	42.5	9.7×10^6	$12,\!400$
SG2.4	GS6075	30.1	21.0	20.9	24.7	2.6	1.4×10^6	$20,\!600$
SG2.5	GS6075	59.4	3.4	2.0	26.4	202.6	1.5×10^6	11,900