Correction to: A numerical and experimental analysis of the methodology of thermal conductivity measurements in fluids by concentric cylinders

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Correction to: Heat and Mass Transfer

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In the mentioned article, Eq. 23 and Eq. 34 should be read as follows:

$$Nu_{D_{oo}} = CRe_{D_{oo}}^m Pr^{0.37} \left(\frac{Pr}{Pr_s} \right)^{0.25} \quad (23)$$

$$\frac{k_{ef}}{k} = \frac{\ln(D_o/D_i)}{\ln \left[1 + 2 \left(0.386 \left(\frac{Pr}{0.861 + Pr} \right)^{1/4} Ra_{Di}^{1/4} \right)^{-1} \right]} \frac{(T_{fi} - T_M)}{(T_{fi} - T_{fo})} \quad (34)$$

Data of glycerol physical properties (specific heat and viscosity), presented in Table 3, shown in the next page:

The online version of the original article can be found at <https://doi.org/10.1007/s00231-018-2448-6>

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Table 3 Physical properties of the materials used in the CFD simulations

Material	Physical property	Temperature (°C)						
		30	35	40	45	50	60	70
Water [18]	k (W/(m·K))	0.630 (constant)						
	ρ_0 (kg/m ³)	997 (constant)						
	β (1/K)	4.1×10^{-4} (constant)						
	c_p (J/(kg·K))	4176	4175	4175	4176	4178	4183	—
	μ (kg/(m·s))	7.92×10^{-4}	7.20×10^{-4}	6.58×10^{-4}	6.05×10^{-4}	5.55×10^{-4}	—	—
Water/glycerol 50% (w/w) [22]	k (W/(m·K))	0.422 (constant)						
	ρ_0 (kg/m ³)	1123 (constant)						
	β (1/K)	5.3×10^{-4} (constant)						
	c_p (J/(kg·K))	3295	—	3318	—	3343	3369	—
	μ (kg/(m·s))	4.21×10^{-3}	—	3.10×10^{-3}	—	2.37×10^{-3}	1.86×10^{-3}	—
Glycerol [22]	k (W/(m·K))	0.286 (constant)						
	ρ_0 (kg/m ³)	1260 (constant)						
	β (1/K)	5.2×10^{-4} (constant)						
	c_p (J/(kg·K))	2415	—	2462	—	2509	2555	2603
	μ (kg/(m·s))	6.12×10^{-1}	—	2.84×10^{-1}	—	1.42×10^{-1}	8.13×10^{-2}	5.06×10^{-2}
Aluminum*	k (W/(m·K))	202.4 (constant)						
	ρ (kg/m ³)	2719 (constant)						
	c_p (J/(kg·K))	871 (constant)						
Nylon 6.6**	k (W/(m·K))	0.230 (constant)						
	ρ (kg/m ³)	1140 (constant)						
	c_p (J/(kg·K))	1700 (constant)						

(*) Ansys® *Fluent* database; (**) Manufacturer's information: *Technyl*®

The authors regret any inconvenience this may have caused.

The original article has been corrected.