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## NOMENCLATURE

SEM	Scanning Electron microscope
TEM	Transmission Electron microscope
EDX	Energy Dispersive X-ray
XRD	X-Ray Diffraction
NDTC	Non-Dimensional Thermal Conductivity constant
$k_{eff} / k_f$	ratio of effective thermal conductivity to thermal conductivity of nanofluid (constant)
$k_p$	thermal conductivity of nanoparticle in solid form in $W.m^{-1}.K^{-1}$
$k_f$	thermal conductivity of nanofluid coolant, in $W.m^{-1}.K^{-1}$
n	empirical shape factor
MQL	Minimum Quantity Lubrication
PEG	Poly Ethylene Glycol
CF	Correction Factor

## Greek symbols

$\phi$	weight % of nanoparticle
$\psi$	Sphericity of nanoparticle
%	percentage

## Subscripts

eff	effective
f	nanofluid
p	nanoparticle