

Sr. No.	Quantity	Symbol	Units (SI)	Dimensions
A	Fundamental			
1	Mass	M	Kg	$M^1L^0T^0\theta^0$
2	Length	L	m	$M^0L^1T^0\theta^0$
3	Time	T	Sec	$M^0L^0T^1\theta^0$
4	Temperature	θ	K	$M^0L^0T^0\theta^1$
5	Heat	Q, H	Joule	$M^1L^2T^{-2}$
B	Geometric			
1	Area	A	m^2	L^2
2	Volume	V	m^3	L^3
C	Kinematic			
1	Linear Velocity	u, v	m/s	L^1T^{-1}
2	Angular Velocity	ω	rad/s	T^{-1}
3	Acceleration	a	m/s^2	L^1T^{-2}
4	Angular	α	rad/s^2	T^{-2}
5	Discharge	Q	m^3/sec	L^3T^{-1}
6	Kinematic Viscosity	ν	m^2/sec	L^2T^{-1}
D	Dynamic			
1	Force / Resistance	F/R	N ($kg\cdot m/s^2$)	$M^1L^1T^{-2}$
2	Density	ρ	Kg/m^3	M^1L^{-3}
3	Specific Weight	w	N/m^3	$M^1L^{-2}T^{-2}$
4	Dynamic Viscosity	μ	$Kg/m\cdot sec$	$M^1L^{-1}T^{-1}$
5	Work, Energy	W, E	N-m (Joule)	$M^1L^2T^{-2}$
6	Power	P	Watt (J/sec)	$M^1L^2T^{-3}$
E	Thermodynamic			
1	Thermal Conductivity	K	W/m-K	$M^1L^{-1}T^{-3}\theta^{-1}$
2	Specific Heat	C_p, C_v	$kJ/kg\cdot K$	$L^2T^{-2}\theta^{-1}$
3	Heat Transfer Coefficient	h	$W/m^2\cdot K$	$M^1T^{-3}\theta^{-1}$
4	Gas Constant	R	$J/kg\cdot K$	$L^2T^{-2}\theta^{-1}$
5	Thermal Diffusivity	α	m^2/sec	L^2T^{-1}