

USED PHYSICAL UNITS

Physical Quantity	Name of the Unit	Symbol	Physical Quantity	Name of the Unit	Symbol	
Space and Time			Mechanics			
Length	millimeter	mm	atmosphere, standard	atm		
	centimeter	cm		dynamic viscosity	pascal second	Pa·s
	inch	in		surface tension	newton per meter	N/m
	meter	m	Energy and Power			
	kilometer	km	energy / work / amount of heat	joule	J	
	foot	ft		kilowatt hour	kW·h	
	mile	mi	electronvolt		eV	
	yard	yd	specific energy		joule per kilogram	J/kg
	ångström	Å	energy density	joule per cubic meter	J/m ³	
	area	square millimeter	mm ²	power, radiant flux	watt	W
square centimeter		cm ²	kilo watt	kW		
square meter		m ²		heat flux density	watt per square meter	W/m ²
square kilometer		km ²	thermodynamic temperature	kelvin	K	
square inch		in ²	celsius temperature	degree celsius	°C	
square yard		yd ²	entropy, heat capacity	joule per kelvin	J/K	
square mile		mi ²	specific heat capacity	joule per kilogram kelvin	J/(kg·K)	
are		a	thermal conductivity	watt per meter kelvin	W/(m·K)	
hectare		ha	irradiance, heat flux density	watt per square meter	W/m ²	
barn		b	Electricity and Magnetism			
volume	cubic millimeter	mm ³	electric current	ampere	A	
	cubic centimeter	cm ³	current density	ampere per square meter	A/m ²	
	cubic inch	in ³	electric charge	coulomb	C	
	cubic yard	yd ³	ampere hour	A·h		
	cubic meter	m ³		surface charge density, electric displacement	coulomb per square meter	C/m ²
liter	L	electric charge density	coulomb per cubic meter	C/m ³		
wavenumber	reciprocal meter	m ⁻¹	electric potential difference	volt	V	
	plane angle	rad	electrical field strength	volt per meter	V/m	
degree	degree	°	electric resistance	ohm	Ω	
	steradian	sr	resistivity	ohm meter	Ω·m	
time	second	s	electric conductance	siemens	S	
	minute	min	specific conductivity	siemens per meter	S/m	
	hour	h	capacitance	farad	F	
	day	day	permittivity	farad per meter	F/m	
	year	year	magnetic flux	weber	Wb	
velocity	meter per second	m/s	magnetic flux density	tesla	T	
	kilometer per hour	km/h	inductance	henry	H	
	foot per second	ft / s	magnetic field strength	ampere per meter	A/m	
	inch per second	in / s	permeability	henry per meter	H/m	
	nautical mile per hour	knot	Light Radiation			
angular velocity	radian per second	rad/s	luminous intensity	candela	cd	
	acceleration	meter per second squared	luminous flux	lumen	lm	
angular acceleration	radian per second squared	rad/s ²	luminous energy	lumen second	lm·s	
	frequency	hertz	illuminance	lux	lx	
Mechanics	mass	kilogram	kg	radiant intensity	watt per steradian	W/sr
		metric ton	t	Radioactivity and ionising Radiation		
	surface related mass	kilogram per square meter	kg/m ²	activity	becquerel	Bq
		mass density	kilogram per cubic meter	curie	Ci	
	specific volume	gram per cubic centimeter	g/cm ³	absorbed dose	gray	Gy
		stream capacity, flow	cubic meter per kilogram	absorbed dose rate	gray per second	Gy/s
	mass flow	kilogram per second	effective dose	sievert	Sv	
	momentum	kilogram meter per second	exposure	coulomb per kilogram	C/kg	
	rotatory momentum, twist	kilogram square meter times radian per second	kg·m ² ·rad/s	Molecular Physics		
	moment of inertia	kilogram square meter	kg·m ²	amount of substance	mole	mol
specific volume		cubic meter per kilogram	molar mass	mass per mole	g/mol	
force	newton	N	catalytic activity	katal	kat	
torque, moment of force	newton meter	N·m				
pressure, stress	pascal	Pa				
	bar	bar				