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TRANSLATION SERVICES

SI Metric Symbols

Creating a safer standardized vocabulary for equipment operators

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Creating a safer, standardized vocabulary for equipment operators

SI is the acronym for Système international d'unités, the metric system of measurement that has been adopted worldwide. To ensure proper use and presentation, observe the following guidelines:

- *Never place a period after an SI symbol, unless it is at the end of a sentence.*
- *A numeric value must always precede the SI symbol, and there must be a space between the digit(s) and the symbol.*
- *Always present an SI symbol in its singular form. Never add an 's' to the symbol to denote pluralization.*

UNIT NAME	SYMBOL	TYPE OF MEASUREMENT
ampere	A	Electric current
bar	bar	Pressure/stress
candela	cd	Luminous intensity
candela per square meter	cd/m^2	Luminance
centimeter	cm	Length, width, distance, thickness, etc.
coulomb	C	Electric charge, quantity of electricity
coulomb per square meter	C/m^2	Electric displacement field, polarization vector
coulomb per cubic meter	C/m^3	Electric charge density
cubic centimeter	cm^3	Volume
cubic meter	m^3	Volume
cubic meter per kilogram	m^3/kg	Specific volume
degree Celsius	°C	Temperature
farad	F	Capacitance
farad per meter	F/m	Permittivity
gram	g	Mass
hectare	ha	Area of land
hectopascal	hPa	Pressure/stress
henry	H	Inductance
henry per meter	H/m	Permeability
hertz	Hz	Frequency
joule	J	Energy, work, quantity of heat
joule per cubic meter	J/m^3	Energy density
joule per kilogram	J/kg	Specific energy
joule per kilogram kelvin	J/(kg·K)	Specific heat capacity, specific entropy
Joule per mole kelvin	J/(mol·K)	Molar entropy, molar heat capacity
kelvin	K	Thermodynamic temperature
kilogram	kg	Mass or weight
kilogram per square meter	kg/m^2	Area density
kilogram per cubic meter	kg/m^3	Mass density
kilohertz	kHz	Frequency
kilojoule	kJ	Energy
kilometer	km	Distance
kilopascal	kPa	Pressure/stress
kilowatt	kW	Power
liter	L	Volume
lumen	lm	Luminous flux
lumen second	lm·s	Luminous energy
lux	lx	Illuminance
meter	m	Length, width, distance, thickness, etc.
meter per second	m/s	Speed, velocity
meter per second squared	m/s^2	Acceleration
milliliter	mL	Volume
millimeter	mm	Length, width, distance, thickness, etc.
mole	mol	Amount of substance
mole per cubic meter	mol/m^3	Amount of substance concentration
newton	N	Force, weight
newton meter	N·m	Moment of force
ohm	Ω	Electric resistance
pascal	Pa	Pressure/stress
pascal second	Pa·s	Dynamic viscosity
radian	rad	Plane angle
radian per second	rad/s	Angular velocity
radian per second squared	rad/s^2	Angular acceleration
second	s	Time
siemens	S	Electric conductance
siemens per meter	S/m	Conductivity
square meter	m^2	Area
tesla	T	Magnetic flux density
tonne	t	Mass
volt	V	Electric potential difference
volt per meter	V/m	Electric field strength
watt	W	Power, radiant flux
watt per meter kelvin	W/(m·K)	Thermal conductance
watt per square meter	W/m^2	Heat flux density, irradiance
weber	Wb	Magnetic flux

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