

## 40 C.F.R. § 1065.1005

## Symbols, abbreviations, acronyms, and units of measure.

The procedures in this part generally follow the International System of Units (SI), as detailed in NIST Special Publication 811, which we incorporate by reference in § 1065.1010. See § 1065.20 for specific provisions related to these conventions. This section summarizes the way we use symbols, units of measure, and other abbreviations.

(a) *Symbols for quantities.* This part uses the following symbols and units of measure for various quantities:

## Table 1 of § 1065.1005—Symbols for Quantities

Symbol	Quantity	Unit	Unit symbol	Units in terms of SI base units
α	atomic hydrogen-to-carbon ratio	mole per mole	mol/mol	1.
A	area	square meter	m2	m2.
ао	intercept of least squares regression			
a1	slope of least squares regression			
ag	acceleration of Earth's gravity	meter per square second	m/s2	m· s−2.
β	ratio of diameters	meter per meter	m/m	1.
β	atomic oxygen-to-carbon ratio	mole per mole	mol/mol	1.
C#	number of carbon atoms in a molecule			
С	power-specific carbon mass error coefficient	gram per kilowatt-hour	g/(kW·hr)	3.6-1·10-9·m-2 ·s2.
Cd	discharge coefficient			
Cf	flow coefficient			
δ	atomic nitrogen-to-carbon ratio	mole per mole	mol/mol	1.
d	diameter	meter	m	m.
d	power-specific carbon mass rate absolute error coefficent	gram per kilowatt-hour	g/(kW·hr)	3.6-1·10-9·m-2 ·s2.
DR	dilution ratio	mole per mole	mol/mol	1.

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ε	error between a quantity and its reference			
	difference or error quantity			
€ e	brake-specific emission or fuel consumption	gram per kilowatt hour	g/(kW·hr)	3.6-1·10-9·m-2 ·s2.
F	F-test statistic			
f	frequency	hertz	Hz	S-1.
fn	angular speed (shaft)	revolutions per minute	r/min	π·30-1·s-1.
Υ	ratio of specific heats	(joule per kilogram kelvin) per (joule per kilogram kelvin)	(J/(kg·K))/(J/(kg·K))	1.
γ	atomic sulfur-to-carbon ratio	mole per mole	mol/mol	1.
К	opacity			
K	correction factor			1.
Kv	calibration coefficient		m4·s·K0.5/kg	m4·kg-1·s·K0.5.
1	length	meter	m	m.
L	limit			
μ	viscosity, dynamic	pascal second	Pa·s	m-1·kg·s-1.
M	molar mass 1	gram per mole	g/mol	10−3 · kg · mol−1.
m	mass	kilogram	kg	kg.
m	mass rate	kilogram per second	kg/s	kg·s-1.
ν	viscosity, kinematic	meter squared per second	m2/s	m2·s-1.
N	total number in series			
n	amount of substance	mole	mol	mol.
n	amount of substance rate	mole per second	mol/s	mol·s−1.
P	power	kilowatt	kW	103 · m2 · kg · s−3.
PF	penetration fraction			
р	pressure	pascal	Pa	m-1·kg·s-2.
ρ	mass density	kilogram per cubic meter	kg/m3	m−3·kg.
Δр	differential static pressure	pascal	Ра	m-1·kg·s-2.
r	ratio of pressures	pascal per pascal	Pa/Pa	1.

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r2	coefficient of determination			
Ra	average surface roughness	micrometer	μm	10−6·m.
Re#	Reynolds number			
RF	response factor			
RH	relative humidity			
σ	non-biased standard deviation			
S	Sutherland constant	kelvin	K	K.
SEE	standard error of the estimate			
Т	absolute temperature	kelvin	K	K.
Т	Celsius temperature	degree Celsius	°C	K-273.15.
Т	torque (moment of force)	newton meter	N·m	m2 · kg · s - 2.
θ	plane angle	degrees	0	rad.
t	time	second	S	S.
Δt	time interval, period, 1/frequency	second	S	S.
V	volume	cubic meter	m3	m3.
V	volume rate	cubic meter per second	m3/s	m3·s-1.
W	work	kilowatt-hour	kW·hr	3.6 · 106 · m2 · kg · s-2.
$w_{\rm C}$	carbon mass fraction	gram per gram	g/g	1.
х	amount of substance mole fraction.2	mole per mole	mol/mol	1.
X ~	flow-weighted mean concentration	mole per mole	mol/mol	1.
у	generic variable			
Z	compressibility factor			
	I.	I.		

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