



GS1 US Data Hub® | Developer Portal

API Data Dictionary

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Field Name	Description	API	Action	Data Type	Format
ProductDescription	Describes the product	Product	Get	Text/String	200 characters
sku	Internal product identifier of your stock keeping unit here.	Product	Get	Text/String	3-75 characters
BrandName	Indicates the name of the product line used with consumers	Product	Get	Text/String	3-70 characters
IsVariable	T/F Check for whether the product is variable measure	Product	Get	Text/String	5-9 characters
IsPurchasable	T/F Check for whether the product is purchasable	Product	Get	Text/String	5-9 characters
height	Height of product including packaging	Product	Get	Numeric	1-8 characters
width	Width of product including packaging	Product	Get	Numeric	1-8 characters
depth	Depth of product including packaging	Product	Get	Numeric	1-8 characters
dimensionMeasure	Unit of measure used for dimensions	Product	Get	Text/String	1-2 characters
grossWeight	Weight of the product plus its container or packaging	Product	Get	Numeric	1-8 characters
netWeight	Weight of the product itself	Product	Get	Numeric	1-8 characters
weightMeasure	Unit of measure used for weight	Product	Get	Text/String	2-3 characters
TargetMarket	Designated market of sale for the product	Product	Get	Text/String	
Status	Life cycle state of product	Product	Get	Text/String	5-9 characters
ModifiedDate	Date of last modification to product record	Product	Get		
SubBrandName	Alternate Brand Name	Product	Get	Text/String	1-2 characters
ProductDescriptionShort	Short product description	Product	Get	Text/String	1-2 characters
NetContent1Count	Product Content amount (primary)	Product	Get	Text/String	1-2 characters
NetContent1UnitOfMeasure	Product Content Unit of Measure (primary)	Product	Get	Text/String	1-2 characters
NetContent2Count	Product Content amount (2nd)	Product	Get	Text/String	1-2 characters

Field Name	Description	API	Action	Data Type	Format
NetContent2UnitOfMeasure	Product Content Unit of Measure (2nd)	Product	Get	Text/String	1-2 characters
NetContent3Count	Product Content amount (3rd)	Product	Get	Text/String	1-2 characters
NetContent3UnitOfMeasure	Product Content Unit of Measure (3rd)	Product	Get	Text/String	1-2 characters
GlobalProductClassification	Global Product Classification Code	Product	Get	Text/String	
ImageURL	The web address for any product images	Product	Get	Text/String	1-2 characters
IsEnhanced	T/F Identifies whether the product record includes enhanced product attributes.	Product	Get	Text/String	1-2 characters
BrandNameLanguage1	Language for Brand Name1	Product	Get	Text/String	3-70 characters
ProductDescriptionLanguage1	Language for Product Description1	Product	Get	Text/String	3-70 characters
BrandName2	Indicates the name of the product line used with consumers (secondary market)	Product	Get	Text/String	3-70 characters
BrandNameLanguage2	Language for Brand Name2	Product	Get	Text/String	3-70 characters
ProductDescription2	Describes the product (in 2nd Language)	Product	Get	Text/String	3-200 characters
ProductDescriptionLanguage2	Language for Product Description1	Product	Get	Text/String	3-200 characters
companyName	Name of Company associated with product	Product	Get	Text/String	1-255 characters
CompanyURI	Unique Resource Identity	Product	Get	Text/String	1-8000 characters

Field Name	Description	API	Action	Data Type	Format
Prefix	Company Prefix	Product	Get	Text/String	3-200 characters
gtin	This is the 14-digit representation of the Global Trade Item Number as it would be stored in a database	Product	Get	Numeric	14 characters
gtin13	13-digit number used predominately outside of North America for EAN barcodes	Product	Get	Numeric	13 characters
gtin12	The 12-digit Global Trade Item Number as it would be used with a UPC-A barcode	Product	Get	Numeric	12 Characters
PackagingLevel	Product position in Packaging Heirarchy	Product	Get	Text/String	12 Characters
Industry	The primary industry where the product is sold	Product	Get	Text/String	3-20 characters
entityGLN	GLN used to identify a company's legal entity	Product	Get	Numeric	13 characters
Comments	Free text field for product comments	Product	Get	Text/String	1-2 characters
ChildGTINs	Child GTINs for upper level package product	Product	Get	Text/String	1-2 characters
Quantity	Quantity of child GTINs for upper level package product	Product	Get	Text/String	1-2 characters
LabelDescription	Product label description	Product	Get	Text/String	1-2 characters
Ancestors	Product(s) above the queried product in hierarchy	Product	Get	Text/String	12 Characters
Descendants	Product(s) below the queried product in hierarchy	Product	Get	Text/String	12 Characters

Field Name	Description	API	Action	Data Type	Format
prefix	GS1 Company Prefix	Location	Get	Numeric	8 characters
parentGln	Parent Global Location Number	Location	Get	Numeric	13 characters
roleInSupplyChain	Role of location in supply chain	Location	Get	Numeric	2 characters
gln	Global Location Number	Location	Get	Numeric	13 characters
name	Name of Location	Location	Get	Text/String	1-80 characters
name2	Secondary location name	Location	Get	Text/String	0-80 characters
addressLine1	Primary street address	Location	Get	Text/String	1-80 characters
addressLine2	Any secondary information such as Suite, Floor, etc.	Location	Get	Text/String	0-80 characters
addressLine3	Additional descriptive information that is not verified through the USPS data base.	Location	Get	Text/String	0-80 characters
city	City	Location	Get	Text/String	1-100 characters
state	State or Province	Location	Get	Text/String	2 characters
zip	Zip Code	Location	Get	Numeric	10 characters
country	Country	Location	Get	Text/String	1-50 characters
phone	Company Phone Number	Location	Get	Text/String	1-20 characters
replacedGln	Optional field that indicates the prior GLN for a location	Location	Get	Text/String	13 characters
reValidationDate	Date and time the location record was revalidated	Location	Get	Numeric/Date/Time	YYYY-DD-MMTHH:MM:SS.SSS

Field Name	Description	API	Action	Data Type	Format
dateUspsVerified	Date and time the location record was revalidated	Location	Get	Date/Time	YYYY-DD-MMTHH:MM:SS.SSS
status	T/F Is the location active	Location	Get	Boolean	1 bit
createDate	Date and time the location record was created	Location	Get	Date/Time	YYYY-DD-MMTHH:MM:SS.SSS
updateDate	Date and time the location record was created	Location	Get	Date/Time	YYYY-DD-MMTHH:MM:SS.SSS
bypassAddressVerification		Location	Get	Boolean	1 bit
locationTypes	Varies by Industry	Location	Get	Text/String	7-48 characters
GDSNGLNLocations	Indicators used to represent the GLNs used in GDSN	Location	Get	Text/String	Brand Owner, GLN Manufacturer, GLN Recipient, Provider GLN, Source Provider GLN, Information Provider GLN
GPO	Group Purchasing Organization the location belongs to	Location	Get	Text/String	0-80 characters
selfManaged	T/F Is this a company who manages their own location records	Location	Get	Boolean	1 bit
industry	Industry (Based off of Parent GLN)	Location	Get	Text/String	CPG, Healthcare, Foodservice

Field Name	Description	API	Action	Data Type	Format
Source	Data source of results	Company	Get	Text/String	1-18 characters
CompanyName	Company Name	Company	Get	Text/String	1-80 characters
StreetAddress1	Company Address 1	Company	Get	Text/String	1-80 characters
StreetAddress2	Company Address 2	Company	Get	Text/String	0-80 characters
StreetAddress3	Company Address 3	Company	Get	Text/String	0-80 characters
City	City	Company	Get	Text/String	1-80 characters
StateProvince	State or Province	Company	Get	Text/String	2 characters
ZipCode	Zip Code	Company	Get	Numeric	10 characters
Country	Country	Company	Get	Text/String	1-50 characters
Phone	Company Phone Number	Company	Get	Text/String	1-20 characters
EntityGLN	GLN used to identify a company's legal entity	Company	Get	Numeric	13 characters
ModifiedDate	Date of the last change in company status or the addition of a prefix	Company	Get	Date/Time	MM/DD/YYYY HH:MM:SS xM
GSRN	Global Service Relation Number	Company	Get	Numeric	18 characters
UPCPrefix	Identification number used in the creation of UPC barcodes	Company	Get	Numeric	6-10 characters
GS1Prefix	Unique number that identifies a company as the manufacturer throughout the entire product supply-chain	Company	Get	Numeric	7-11 characters
PrefixStatus	Prefix Status	Company	Get	Text/String	Active/Inactive

Appendix A: Accepted Country Codes

Alpha_2_Code	English_Short_Name	Alpha_2_Code	English_Short_Name
AF	Afghanistan	CP	
AX	Åland Islands	CC	Cocos (Keeling) Islands (the)
AL	Albania	CO	Colombia
DZ	Algeria	KM	Comoros (the)
AS	American Samoa	CG	Congo (the)
AD	Andorra		Congo (the Democratic Republic of the)
AO	Angola	CD	
AI	Anguilla	CK	Cook Islands (the)
AQ	Antarctica	CR	Costa Rica
AG	Antigua and Barbuda	CI	Côte d'Ivoire
AR	Argentina	HR	Croatia
AM	Armenia	CU	Cuba
AW	Aruba	CW	Curaçao
AU	Australia	CY	Cyprus
AT	Austria	CZ	Czechia
AZ	Azerbaijan	CS	Czechoslovakia
BS	Bahamas (the)	DY	Dahomey
BH	Bahrain	DK	Denmark
BD	Bangladesh	DG	
BB	Barbados	DJ	Djibouti
BY	Belarus	DM	Dominica
BE	Belgium	DO	Dominican Republic (the)
BZ	Belize	NQ	Dronning Maud Land
BJ	Benin	TP	East Timor
BM	Bermuda	EC	Ecuador
BT	Bhutan	EG	Egypt
BO	Bolivia (Plurinational State of)	SV	El Salvador
	Bonaire, Sint Eustatius and Saba	GQ	Equatorial Guinea
BQ		ER	Eritrea
BA	Bosnia and Herzegovina	EW	
BW	Botswana	EE	Estonia
BV	Bouvet Island	SZ	Eswatini
BR	Brazil	ET	Ethiopia
BQ	British Antarctic Territory	EU	
	British Indian Ocean Territory (the)		Falkland Islands (the) [Malvinas]
IO		FK	
BN	Brunei Darussalam	FO	Faroe Islands (the)
BG	Bulgaria	FJ	Fiji
BF	Burkina Faso	SF	
BU	Burma	FI	Finland
BI	Burundi	FR	France
BY	Byelorussian SSR	FX	France, Metropolitan
CV	Cabo Verde	AI	French Afars and Issas
KH	Cambodia	GF	French Guiana
CM	Cameroon	PF	French Polynesia
CA	Canada		French Southern and Antarctic Territories
IC		FQ	
CT	Canton and Enderbury Islands		French Southern Territories (the)
KY	Cayman Islands (the)	TF	
CF	Central African Republic (the)	GA	Gabon
EA		GM	Gambia (the)
TD	Chad	GE	Georgia
CL	Chile	DD	German Democratic Republic
RC		DE	Germany
CN	China	GH	Ghana
CX	Christmas Island	GI	Gibraltar
		GE	Gilbert and Ellice Islands

Appendix A: Accepted Country Codes

Alpha_2_Code	English_Short_Name	Alpha_2_Code	English_Short_Name
GR	Greece	LI	Liechtenstein
GL	Greenland	LT	Lithuania
GD	Grenada	LU	Luxembourg
WG		MO	Macao
GP	Guadeloupe		Macedonia (the former
GU	Guam	MK	Yugoslav Republic of)
GT	Guatemala	RM	
GG	Guernsey	MG	Madagascar
GN	Guinea	MW	Malawi
GW	Guinea-Bissau	MY	Malaysia
GY	Guyana	MV	Maldives
RH		ML	Mali
HT	Haiti	MT	Malta
	Heard Island and McDonald	MH	Marshall Islands (the)
HM	Islands	MQ	Martinique
VA	Holy See (the)	MR	Mauritania
HN	Honduras	MU	Mauritius
HK	Hong Kong	YT	Mayotte
HU	Hungary	MX	Mexico
IS	Iceland		Micronesia (Federated States
IN	India	FM	of)
RI		MI	Midway Islands
ID	Indonesia	MD	Moldova (the Republic of)
IB		MC	Monaco
IR	Iran (Islamic Republic of)	MN	Mongolia
IQ	Iraq	ME	Montenegro
IE	Ireland	MS	Montserrat
IM	Isle of Man	MA	Morocco
IL	Israel	MZ	Mozambique
IT	Italy	MM	Myanmar
JA		NA	Namibia
JM	Jamaica	NR	Nauru
JP	Japan	NP	Nepal
JE	Jersey	NL	Netherlands (the)
JT	Johnston Island	AN	Netherlands Antilles
JO	Jordan	NT	Neutral Zone
KZ	Kazakhstan	NC	New Caledonia
KE	Kenya	NH	New Hebrides
KI	Kiribati	NZ	New Zealand
	Korea (the Democratic	NI	Nicaragua
KP	People's Republic of)	RN	
KR	Korea (the Republic of)	NE	Niger (the)
KW	Kuwait	NG	Nigeria
KG	Kyrgyzstan	NU	Niue
	Lao People's Democratic	NF	Norfolk Island
LA	Republic (the)	MP	Northern Mariana Islands (the)
LV	Latvia	NO	Norway
RL		OM	Oman
LB	Lebanon	PC	Pacific Islands (Trust Territory)
LS	Lesotho	PK	Pakistan
LR	Liberia	PW	Palau
LY	Libya	PS	Palestine, State of
LF		PA	Panama
FL		PZ	Panama Canal Zone
		PG	Papua New Guinea
		PY	Paraguay
		GC	

Appendix A: Accepted Country Codes

Alpha_2_Code	English_Short_Name	Alpha_2_Code	English_Short_Name
PE	Peru	TK	Tokelau
PI		TO	Tonga
RP		TT	Trinidad and Tobago
PH	Philippines (the)	TA	
PN	Pitcairn	TN	Tunisia
PL	Poland	TR	Turkey
PT	Portugal	TM	Turkmenistan
PR	Puerto Rico	TC	Turks and Caicos Islands (the)
QA	Qatar	TV	Tuvalu
RE	Réunion	UG	Uganda
RO	Romania	UA	Ukraine
RU	Russian Federation (the)	EF	
RW	Rwanda	AE	United Arab Emirates (the)
BL	Saint Barthélemy	UK	
	Saint Helena, Ascension and Tristan da Cunha		United Kingdom of Great Britain and Northern Ireland (the)
SH		GB	
KN	Saint Kitts and Nevis		United States Minor Outlying Islands (the)
LC	Saint Lucia	UM	United States Miscellaneous Pacific Islands
MF	Saint Martin (French part)	PU	
PM	Saint Pierre and Miquelon	US	United States of America (the)
WV		HV	Upper Volta
	Saint Vincent and the Grenadines	UY	Uruguay
VC		SU	USSR
WS	Samoa	UZ	Uzbekistan
SM	San Marino	VU	Vanuatu
ST	Sao Tome and Principe	YV	
SA	Saudi Arabia		Venezuela (Bolivarian Republic of)
SN	Senegal	VE	
RS	Serbia	VN	Viet Nam
CS	Serbia and Montenegro		Viet-Nam, Democratic Republic of
SC	Seychelles	VD	
SL	Sierra Leone	VG	Virgin Islands (British)
SK	Sikkim	VI	Virgin Islands (U.S.)
SG	Singapore	WK	Wake Island
SX	Sint Maarten (Dutch part)	WF	Wallis and Futuna
SK	Slovakia	EH	Western Sahara*
SI	Slovenia	WO	
SB	Solomon Islands	YE	Yemen
SO	Somalia	YD	Yemen, Democratic
ZA	South Africa	YU	Yugoslavia
	South Georgia and the South Sandwich Islands	ZR	Zaire
GS		ZM	Zambia
SS	South Sudan	ZW	Zimbabwe
RH	Southern Rhodesia		
ES	Spain		
LK	Sri Lanka		
SD	Sudan (the)		
SR	Suriname		
SJ	Svalbard and Jan Mayen		
SE	Sweden		
CH	Switzerland		
SY	Syrian Arab Republic (the)		
TW	Taiwan (Province of China)		
TJ	Tajikistan		
	Tanzania, the United Republic of		
TZ			
TH	Thailand		
TL	Timor-Leste		

Appendix B: Accepted Language Codes

English name of Language	ISO 639-1 Code
Abkhazian	ab
Afar	aa
Afrikaans	af
Akan	ak
Albanian	sq
Amharic	am
Arabic	ar
Aragonese	an
Armenian	hy
Assamese	as
Avaric	av
Avestan	ae
Aymara	ay
Azerbaijani	az
Bambara	bm
Bashkir	ba
Basque	eu
Belarusian	be
Bengali	bn
Bihari languages	bh
Bislama	bi
Bokmål, Norwegian; Norwegian Bokmål	nb
Bosnian	bs
Breton	br
Bulgarian	bg
Burmese	my
Catalan; Valencian	ca
Central Khmer	km
Chamorro	ch
Chechen	ce
Chichewa; Chewa; Nyanja	ny
Chinese	zh
Church Slavonic; Old Slavonic; Church Slavonic; Old Bulgarian; Old Church Slavonic	cu
Chuvash	cv
Cornish	kw
Corsican	co
Cree	cr
Croatian	hr
Czech	cs
Danish	da
Divehi; Dhivehi; Maldivian	dv
Dutch; Flemish	nl
Dzongkha	dz
English	en
Esperanto	eo
Estonian	et
Ewe	ee
Faroese	fo
Fijian	fj

English name of Language	ISO 639-1 Code
Finnish	fi
Fulah	ff
Gaelic; Scottish Gaelic	gd
Galician	gl
Ganda	lg
Georgian	ka
German	de
Greek, Modern (1453-)	el
Guarani	gn
Gujarati	gu
Haitian; Haitian Creole	ht
Hausa	ha
Hebrew	he
Herero	hz
Hindi	hi
Hiri Motu	ho
Hungarian	hu
Icelandic	is
Ido	io
Igbo	ig
Indonesian	id
Interlingua (International Auxiliary Language Association)	ia
Interlingue; Occidental	ie
Inuktitut	iu
Inupiaq	ik
Irish	ga
Italian	it
Japanese	ja
Javanese	jv
Kalaallisut; Greenlandic	kl
Kannada	kn
Kanuri	kr
Kashmiri	ks
Kazakh	kk
Kikuyu; Gikuyu	ki
Kinyarwanda	rw
Kirghiz; Kyrgyz	ky
Komi	kv
Kongo	kg
Korean	ko
Kuanyama; Kwanyama	kj
Kurdish	ku
Lao	lo
Latin	la
Latvian	lv
Limbungan; Limburger; Limburgish	li
Lingala	ln
Lithuanian	lt
Luba-Katanga	lu

Appendix B: Accepted Language Codes

English name of Language	ISO 639-1 Code
Luxembourgish; Letzeburgesch	lb
Macedonian	mk
Malagasy	mg
Malay	ms
Malayalam	ml
Maltese	mt
Manx	gv
Maori	mi
Marathi	mr
Marshallese	mh
Mongolian	mn
Nauru	na
Navajo; Navaho	nv
Ndebele, North; North Ndebele	nd
Ndebele, South; South Ndebele	nr
Ndonga	ng
Nepali	ne
Northern Sami	se
Norwegian	no
Norwegian Nynorsk; Nynorsk, Norwegian	nn
Occitan (post 1500)	oc
Ojibwa	oj
Oriya	or
Oromo	om
Ossetian; Ossetic	os
Pali	pi
Panjabi; Punjabi	pa
Persian	fa
Polish	pl
Portuguese	pt
Pushto; Pashto	ps
Quechua	qu
Romanian; Moldavian; Moldovan	ro
Romansh	rm
Rundi	rn
Russian	ru
Samoan	sm
Sango	sg
Sanskrit	sa
Sardinian	sc
Serbian	sr
Shona	sn
Sichuan Yi; Nuosu	ii
Sindhi	sd
Sinhala; Sinhalese	si
Slovak	sk
Slovenian	sl
Somali	so
Sotho, Southern	st

English name of Language	ISO 639-1 Code
Spanish; Castilian	es
Sundanese	su
Swahili	sw
Swati	ss
Swedish	sv
Tagalog	tl
Tahitian	ty
Tajik	tg
Tamil	ta
Tatar	tt
Telugu	te
Thai	th
Tibetan	bo
Tigrinya	ti
Tonga (Tonga Islands)	to
Tsonga	ts
Tswana	tn
Turkish	tr
Turkmen	tk
Twi	tw
Uighur; Uyghur	ug
Ukrainian	uk
Urdu	ur
Uzbek	uz
Venda	ve
Vietnamese	vi
Volapük	vo
Walloon	wa
Welsh	cy
Western Frisian	fy
Wolof	wo
Xhosa	xh
Yiddish	yi
Yoruba	yo
Zhuang; Chuang	za
Zulu	zu

Appendix C: Net Content Unit of Measure – Based on GS1 GDD

Instructions: UOM names are listed alphabetically by name. Locate the UOM name and then enter the code in the NetContent1UnitOfMeasure, NetContent2UnitofMeasure, and/or NetContent3UnitofMeasure columns.

Name	Code	Definition
10 ⁶ (1000000) bits (binary digits) per second	E20	A unit of information equal to 10 ⁶ (1000000) bits (binary digits) per second.
Ampere	AMP	Ampere
Ampere Hour	AMH	A unit of electric charge defining the amount of charge accumulated by a steady flow of one ampere for one hour.
Angstrom	A11	A unit of length equal to one hundred-millionth of a centimetre, 10 ⁻¹⁰ metre, used mainly to express wavelengths and interatomic distances.
Anti XA Unit	AXU	A unit of measure for blood potency. Units for the anti XA activity which is a measure to the anti coagulating effect at low molecular heparins.
Assortment	AS	A unit of count defining the number of assortments (assortment: set of items grouped in a mixed collection).
Atomic Mass Units (AMU)	D43	Atomic Mass Units
Bar (unit of pressure)	BAR	The bar is widely used in descriptions of pressure; 1 bar = 100 kilopascals 0.987 atmospheres.
Barrel US	BLL	There are varying standards for barrel for some specific commodities, including 31 gal for beer, 40 gal for whiskey or kerosene, and 42 gal for petroleum. The general standard for liquids is 31.5 gal or half a hogshead; the general standard for dry contents is 7,056 Cubic Inches.
Base box	BB	A unit of area of 112 sheets of tin mil products (tin plate, tin free steel or black plate) 14 by 20 inches, or 31,360 square inches.
Batch	5B	A unit of count defining the number of batches (batch: quantity of material produced in one operation or number of animals or persons coming at once).
Beats Per Minute	BPM	Beats Per Minute
Becquerel	BQL	The becquerel (symbol Bq) is the SI derived unit of radioactivity. One Bq is defined as the activity of a quantity of radioactive material in which one nucleus decays per second. SI uses the becquerel rather than the second for the unit of activity measure to avoid dangerous mistakes: a measurement in becquerels is proportional to activity, and thus a more dangerous source of radiation gives a higher reading. A measurement in seconds is inversely proportional.
Bit per second	B10	In telecommunications and computing, bitrate (sometimes written bit rate, data rate or as a variable R or fb) is the number of bits that are conveyed or processed per unit of time. The bit rate is quantified using the bits per second (bit/s or bps) unit.
Board Foot	BFT	A specialized unit of measure for the volume of rough lumber (before drying and planing with no adjustments) or planed/surfaced lumber. It is the volume of a one-foot length of a board one foot wide and one inch thick. Some countries utilize the synonym super foot or superficial foot.

Appendix C : Net Content Unit of Measure (BO to CO)

Name	Code	Definition
Book	D63	A unit of count defining the number of books (book: set of items bound together or written document of a material whole).
British thermal unit	BTU	The British thermal unit (BTU or Btu) is a traditional unit of energy. It is approximately the amount of energy needed to heat one pound of water one degree Fahrenheit. One Btu is equal to about 1.06 kilojoules. It is used in the power, steam generation, heating and air conditioning industries.
Bushel (UK)	BUI	A bushel is an imperial and U.S. customary unit of dry volume, equivalent in each of these systems to 4 pecks or 8 gallons. It is used for volumes of dry commodities (not liquids), most often in agriculture
Bushel (US)	BUA	A bushel is an imperial and U.S. customary unit of dry volume, equivalent in each of these systems to 4 pecks or 8 gallons. It is used for volumes of dry commodities (not liquids), most often in agriculture
Byte	AD	A unit of information equal to 8 bits.
Calorie - International Table (IT)	D70	A calorie is 1/100 of the amount of energy required to warm one gram of air-free water from 0 °C to 100 °C at standard atmospheric pressure; this is about 4.190 J. Its use is archaic, having been replaced by the SI unit of energy, the joule. However, in many countries it remains in common use as a unit of food energy. In the context of nutrition, and especially food labelling, the calorie is approximately equal to 4.1868 joules (J), and energy values are normally quoted in kilojoules (kJ) and kilocalories (kcal). This code is being deprecated. Use code E14 Kilocalorie to express food calories.
Candela per Square Metre	A24	Candela per Square Metre
Card	CG	A unit of count defining the number of units of card (card: thick stiff paper or cardboard).
Centigram	CGM	A centigram is one hundredth (1/100) of a gram
Centilitre	CLT	A centilitre is one hundredth (1/100) of a litre
Centimetre	CMT	A centimetre is equal to one hundredth of a metre.
Centimetre Per Hour	H49	The number of centimetre per hour the trade item or part of the trade item moves.
Centimetre Per Second	2M	The number of centimetre per second the trade item or part of the trade item moves.
Centesimal Hahnemannian Dilution (CH)	X_CHD	A count of attenuation steps or dilution levels representing the homeopathic potency of a substance using the Hahnemannian (CH) method of attenuation; commonly denoted as CH1, CH2, CH3, etc. Each centesimal attenuation step represents one part source material combined with 99 parts dilution medium; commonly denoted as C1, C2, C3, etc.
Cold Cramp Amp	X_CCA	A measurement of the number of amps a battery can deliver at 0 ° F for 30 seconds and not drop below 7.2 volts.
Colony Forming Units	CFU	Colony Forming Units: is a rough estimate of the number of viable bacteria or fungal cells in a sample.
Colony Forming Units per gram (CFU/g)	X_CFG	Colony Forming Units per gram (CFU/g). See CFU for definition of Colony Forming Unit

Appendix C : Net Content Unit of Measure (CO to DE)

Name	Code	Definition
Colony Forming Units per Pound (CFU/lb)	X_CFP	Colony Forming Units per Pound (CFU/lb) See CFU for definition of Colony Forming Unit
Conventional millimetre of mercury	HN	Conventional millimetre of mercury mm Hg.
Count	1N	Count
Cubic centimetre	CMQ	A cubic centimetre is the volume of a cube of side length one centimetre (0.01 m) equal to a millilitre.
Cubic decimetre	DMQ	A cubic decimetre is the volume of a cube of side length one decimetre (0.1 m)
Cubic foot	FTQ	A cubic foot is the volume of a cube of side length one foot (0.3048 m) .
Cubic Foot Per Minute	2L	Cubic foot per minute
Cubic inch	INQ	A cubic inch is the volume of a cube of side length one inch (0.254 m).
Cubic metre	MTQ	A cubic metre is the volume of a cube of side length one metre.
Cubic Metre Per Hour	MQH	Cubic Metre Per Hour
Cubic millimetre	MMQ	A cubic millimetre is the volume of a cube of side length one millimetre (0.001 m)
Cup (US)	G21	Cup (US)
Days	DAY	A day is one three hundreds and sixty fifth (1/365) of a year
Deadweight Tonnage	A43	A unit of mass defining the difference between the weight of a ship when completely empty and its weight when completely loaded, expressed as the number of tons.
Decibar	X_DBA	Decibar
Decibel	2N	A measurement for sound in air and other gases, relative to 20 micropascals (μPa) = 2×10^{-5} Pa, the quietest sound a human can hear. This is roughly the sound of a mosquito flying 3 metres away. This is often abbreviated to just "dB"; however the correct abbreviation is dB(SPL), indicating decibel for Sound Pressure Level.
Decigram	DG	A decigram is one tenth (1/10) of a gram.
Decilitre	DLT	A decilitre is one tenth (1/10) of a litre.
Decimetre	DMT	A decimetre is equal to one tenth of a metre.
Degree (Unit of Angel)	DD	A measurement of plane angle, representing 1/360 of a full rotation; one degree is equivalent to $\pi/180$ radians.

Appendix C : Net Content Unit of Measure (DE to FO)

Name	Code	Definition
Degree Celsius	CEL	Celsius (also historically known as centigrade) is a temperature scale, the freezing point of water is 0 degrees Celsius (°C) and the boiling point 100 °C (at standard atmospheric pressure), placing the boiling and freezing points of water exactly 100 degrees apart.
Degree Fahrenheit	FAH	The Fahrenheit temperature scale, the freezing point of water is 32 degrees Fahrenheit (°F) and the boiling point 212 °F (at standard atmospheric pressure), placing the boiling and freezing points of water exactly 180 degrees apart.
Dose	E27	A unit of count defining the number of doses (dose: a definite quantity of a medicine or drug).
Dots per inch	E39	A unit of count defining the number of dots per linear inch as a measure of the resolution or sharpness of a graphic image.
Dozen	DZN	A unit of count defining the number of units in multiples of 12.
Dram (UK)	DRI	The dram (archaic spelling drachm) was historically both a coin and a weight. Currently it is both a small mass in the Apothecaries' system of weights and a small unit of volume. This unit is called more correctly fluid dram or in contraction also fluidram. The fluid dram is defined as 1/8 of a fluid ounce, which means it is exactly equal to 3.551 632 812 500 0 mL in the Commonwealth and Ireland. In England dram came to mean a small draught of cordial or alcohol; hence the term dram-house for the taverns where one could purchase a dram.
Dram (US)	DRA	The dram (archaic spelling drachm) was historically both a coin and a weight. Currently it is both a small mass in the Apothecaries' system of weights and a small unit of volume. This unit is called more correctly fluid dram or in contraction also fluidram. The term also refers to the fluid dram, a measure of capacity equal 1/8 of a fluid ounce, which means it is exactly equal to 3.696 691 195 312 5 mL in the United States.
Dry Pint (US)	PTD	The United States dry pint is equal one eighth of a US dry gallon or one half US dry quart. It is used in the United States but is not as common as the liquid pint.
Each	EA	A unit of count defining the number of items regarded as separate units.
ELISA Units	ELU	Enzyme-linked immunosorbent assay unit, is always associated with a product and a method.
Femtolitre	Q32	Femtolitre- Femtolitre is the metric unit of volume equal to one thousand trillionth (European) or one quadrillionth (American) litre. One femtolitre is the same as one cubic micrometre (µm ³), which can be represented numerically as 0.00000000000001/liter.
Femtometre	A71	Femtometre- a quadrillionth of a metre (10 to the negative 15th power)
Fluid ounce (UK)	OZI	A fluid ounce (UK) is equal to one thirtieth (1/30) of a UK pint or 28.4130625 millilitres.
Fluid ounce (US)	OZA	A fluid ounce (US) is equal to one sixteenth (1/16) of a US pint or 29.5735295625 millilitres .
Foot	FOT	The international foot is defined to be equal to 0.3048 meters.
Foot Per Hour	K14	The number of foot per hour the trade item or part of the trade item moves.

Appendix C : Net Content Unit of Measure (FO to GR)

Name	Code	Definition
Foot Per Minute	FR	The number of foot per minute the trade item or part of the trade item moves.
Foot Per Second	FS	The number of foot per second the trade item or part of the trade item moves.
French gauge	H79	The French scale (most correctly abbreviated as Fr, but also often abbreviated as FR or F) is commonly used to measure the catheter size (Circumference is in millimeters), in which 1 Fr = 0.33 mm in diameter. In the French Gauge system as it is also known, the diameter in millimeters of the catheter can be determined by dividing the French size by 3, thus an increasing French size corresponds with a larger diameter catheter. The following equations summarize the relationships: $D(\text{mm}) = \text{Fr}/3$ or $\text{Fr} = D(\text{mm}) * 3$
Gallon (UK)	GLI	The imperial (UK) gallon was legally defined as 4.54609 litres.
Gallon (US liquid) Per Second	K30	Gallon (US liquid) per second
Gallon (US)	GLL	The U.S. liquid gallon is legally defined as 231 cubic inches, and is equal to exactly 3.785411784 litres or about 0.133680555 cubic feet.
Gauge	AWG	Gauge- A number referring to the outer diameter of hypodermic or suture needles. Smaller gauge numbers indicate larger outer diameters. Inner diameter depends on both gauge and wall thickness. An increasing needle-gauge size corresponds to a smaller diameter needle. This is contrary to French Gauge where an increasing gauge size corresponds to a larger external diameter.
Gigabecquerel	GBQ	A unit of activity equal to 109 becquerels.
Gigabyte	E34	A unit of information equal to 109 bytes.
Gigahertz	A86	A unit of frequency equal to 109 Hertz
Gigawatt hour	GWH	A gigawatt hour is 109 kilowatt hour or 3.6 terajoules.
Grain	GRN	A grain or troy grain is precisely 64.79891 milligrams. Exactly 7,000 grains per avoirdupois pound.
Gram	GRM	A gram is defined as one one-thousandth of the kilogram (1×10^{-3} kg).
Gram of Fissile Isotope	GFI	A unit of mass defining the number of grams of a fissile isotope (fissile isotope: an isotope whose nucleus is able to be split when irradiated with low energy neutrons).
Gram Per Hour	F27	Gram Per Hour
Gram Per Litre	GL	Gram Per Litre: A unit of measurement of mass concentration that shows how many grams of a certain substance are present in one litre.
Gram per square metre	GM	In the metric system, the density of all types of paper, paperboard, and fabric, is expressed in terms of grams per square meter (g/m^2). This quantity is commonly called grammage both in English and French (ISO 536), though many English-speaking countries still refer to the "weight". The term density here is used somewhat incorrectly, as density is mass by volume. More precisely, it is a measure of the area density, areal density, or surface density.

Appendix C : Net Content Unit of Measure (GR to IN)

Name	Code	Definition
Grams Per Cubic Centimetre	23	Grams Per Cubic Centimetre
Gross	GRO	A unit of count defining the number of units in multiples of 144 (12 x 12).
Gross kilogram	E4	A unit of mass defining the total number of kilograms before deductions.
Half dozen	HD	A unit of count defining the number of units in multipl of six (6).
Heat Transfer Coefficient	D55	Heat Transfer Coefficient
Hectogram	HGM	A hectogram is one hundred (100) grams
Hectolitre	HLT	A hectolitre is one hundred (100) litres.
Hertz	HTZ	A unit of frequency defined as the number of complete cycles per second; it is the basic unit of frequency in the International System of Units (SI).
Histamine Equivalent Prick	HEP	Histamine equivalent prick testing for allergen.
Horsepower	K43	Horsepower (electric) - Automotive horsepower is defined as "a unit of power equal to 550 foot-pounds per second (745.7 watts)".
Hour	HUR	An hour is a unit of measurement of time of the duration of 60 minutes, or 3600 seconds. It is 1/24 of a median Earth day.
Hundred board foot	BP	A unit of volume equal to one hundred board foot.
Hundred count	HC	A unit of count defining the number of units counted in multiples of 100.
Hundred pound (cwt) / hundred weight (US)	CWA	A unit of weight in the U.S. Customary System equal to 100 pounds (45.36 kilograms); also called cental.
Hundred weight (UK)	CWI	A unit of weight in the British Imperial System equal to 112 pounds (50.80 kilograms); also called quintal.
Hundredths of an Inch	X_HIN	One Hundredth of an inch or 0.01. (Usage- Measurements of Papers, Films, Circuit boards and the like)
Inch of Mercury	F79	Inch of mercury conversion of $3,386.39 \times 10^3 \text{ kg} \times \text{m}^{-1} \times \text{s}^{-2}$ OR 3386.389 pascals.
Inch of Mercury (32 °F)	N16	Non SI-conforming unit of pressure according to the Anglo-American and Imperial system for units, whereas the value of 1 inHg meets the static pressure, which is generated by a mercury at a temperature of 32°F with a height of 1 inch. $3,386.38 \times 10^3 \text{ Pa}$ OR 3386.38 pascals.
Inch of Mercury (60 °F)	N17	Non SI-conforming unit of pressure according to the Anglo-American and Imperial system for units, whereas the value of 1 inHg meets the static pressure, which is generated by a mercury at a temperature of 60°F with a height of 1 inch. $3,376.85 \times 10^3 \text{ Pa}$ OR 3376.85 pascals.

Appendix C : Net Content Unit of Measure (IN to KI)

Name	Code	Definition
Inch Per Minute	M63	The number of inch per minute the trade item or part of the trade item moves.
Inch Per Second	IU	The number of inch per second the trade item or part of the trade item moves.
Inches	INH	An international inch is defined to be equal to 25.4 millimeters.
International Units per Kilogram (IU/kg)	X_IUK	International Units per Kilogram (IU/kg) a unit of activity or potency for vitamins, hormones, or other substances, defined individually for each substance in terms of the activity of a standard quantity or preparation.
Joule	JOU	A joule is the energy exerted by a force of one newton acting to move an object through a distance of one metre.
Kallikrein inactivator unit.	KIU	Kallikrein Inactivator Unit per Milliliter definition: An arbitrary unit of a kallikrein inactivator concentration equal to the concentration at which one milliliter of the mixture contains one unit of the kallikrein inactivator
Kelvin	KEL	Kelvin: a unit of absolute temperature equal to 1/273.16 of the absolute temperature of the triple point of water. One kelvin degree is equal to one Celsius degree.
Kilo Becquerel	2Q	kBq is 103 Bq
Kilobyte	2P	A unit of information equal to 103 (1000) bytes.
Kilocalorie (international table)	E14	A unit of energy equal to 1000 calories.
Kilogram	KGM	A unit of mass equal to one thousand grams.
Kilogram drained net weight	KDW	Kilogram drained net weight
Kilogram Force	B37	The gravitational force of a kilogram weight or a one-kilogram mass multiplied by the acceleration of standard Earth gravity, equal to 9.8 newtons.
Kilogram of hydrogen peroxide	KHY	Kilogram of hydrogen peroxide
Kilogram of methylamine	KMA	Kilogram of methylamine
Kilogram of nitrogen	KNI	Kilogram of nitrogen
Kilogram of phosphorus pentoxide (phosphoric anhydride)	KPP	Kilogram of phosphorus pentoxide (phosphoric anhydride)
Kilogram of potassium hydroxide (caustic potash)	KPH	Kilogram of potassium hydroxide (caustic potash)

Appendix C : Net Content Unit of Measure (KI to KN)

Name	Code	Definition
Kilogram of potassium oxide	KPO	Kilogram of potassium oxide
Kilogram of sodium hydroxide (caustic soda)	KSH	Kilogram of sodium hydroxide (caustic soda)
Kilogram of substance 90% dry	KSD	Kilogram of substance 90% dry
Kilogram of Uranium	KUR	A unit of mass equal to one thousand grams of uranium.
Kilogram per square centimetre	D5	A kilogram-force per square centimeter (kgf/cm ²), often just kilogram per square centimeter (kg/cm ²), or kilopond per square centimeter is a unit of pressure using metric units. Its use is now deprecated; it is not a part of the International System of Units (SI), the modern metric system. The unit is similar to the English unit psi (lbf/in ²).
Kilogram per square metre	28	A unit of pressure equal to 9.80665*10 ⁻⁰⁵ Bar
Kilohertz	KHZ	A unit of frequency equal to 1000 Hertz
Kilojoule	KJO	A kilojoule is 1000 joules
Kilolitre	K6	A kilolitre is one thousand (1000) litres.
Kilometre	KMT	A kilometre is one thousand (1000) metres
Kilometre Per Hour	KMH	The number of kilometre per hour the trade item or part of the trade item moves.
Kilometre Per Second	M62	The number of kilometre per second the trade item or part of the trade item moves.
Kilonewton	B47	1000 Newtons or amount needed to accelerate 1 kilogram of mass at the rate of 1 metre per second squared multiplied by 1000 (Used to measure force of an object where the value exceeds 1000 newtons).
Kilonewton Per Square Metre	KNM	Kilonewton Per Square Metre
Kilopascal	KPA	Kilopascal- a thousand pascals (10 to the 3rd power)
Kilowatt	KWT	A kilowatt is one thousand (1000) watts
Kilowatt / hour	D03	A unit of accumulated energy of a thousand watts over a period of one hour.
Kilowatt hour	KWH	A kilowatt hour is a unit of energy equal to 3.6 megajoules. It is also a common commercial unit of electric energy representing the amount of energy delivered at a rate of 1,000 watts over a period of one hour.
Kit	KT	A unit of count defining the number of kits (kit: tub, barrel or pail).
Knot	KNT	The number of knots the trade item or part of the trade item moves. A Knot is a unit of speed equal to one nautical mile (1.852 km) per hour, approximately 1.151 mph.

Appendix C : Net Content Unit of Measure (KO to ME)

Name	Code	Definition
Korsakovian (K)	X_KVN	A count of attenuation steps or dilution levels representing the homeopathic potency of a substance using the Korsakovian (K) method of attenuation; commonly denoted as CK1, CK2, CK3, etc. Each centesimal attenuation step represents one part source material combined with 99 parts dilution medium; commonly denoted as C1, C2, C3, etc.
Layer	LR	A unit of count defining the number of layers.
Linear foot	LF	A unit of count defining the number of feet (12-inch) in length of a uniform width object.
Linear metre	LM	A unit of count defining the number of metres in length of a uniform width object.
Link	LK	A unit of distance equal to 0.01 chain.
Liquid pint (US)	PTL	The US liquid pint is equal one eighth of a United States liquid gallon.
Liquid quart (US)	QTL	A US liquid quart exactly equals 57.75 cubic inches, which is exactly equal to 0.946352946 litres.
Litre	LTR	A litre is defined as a special name for a cubic decimetre (1 L = 1 dm ³ = 1000 cm ³).
Litre / Day	LD	Litre per day.
Litre of pure alcohol	LPA	Litre of pure alcohol
Litre Per Hour	E32	Litre Per Hour
Litre per kilogram	H83	Litre per kilogram.
Lumen	LUM	Lumen is a measure of the total quantity of visible light emitted by a light source.
Lumen Seconds	B62	Lumen seconds is the SI derived unit of luminous energy. It is based on the lumen, the SI unit of luminous flux, and the second, the SI base unit of time. The lumen second is sometimes called the Talbot (symbol T).
Lumens per Square Meter	B60	Lumens per Square Meter
Lumens Per Watt	B61	The number of Lumens expressed per watt.
Lux	LUX	The International System unit of illumination, equal to one lumen per square meter.
Lux Seconds	B64	Exposure is measured in lux seconds, and can be computed from exposure value (EV) and scene luminance in a specified region.
Megabecquerel	4N	Megabecquerel: 10 ⁶ Bq. Bq is defined as the activity of a quantity of radioactive material in which one nucleus decays per second.
Megabyte	4L	A unit of information equal to 10 (1000000) bytes.
Megahertz	MHZ	A unit of frequency equal to 10 ⁶ Hertz
Megawatt	MAW	A unit of power defining the rate of energy transferred or consumed when a current of 1000 amperes flows due to a potential of 1000 volts at unity power factor.

Appendix C : Net Content Unit of Measure (ME to MI)

Name	Code	Definition
Megawatt hour (1000 kW.h)	MWH	A unit of energy defining the total amount of bulk energy transferred or consumed.
Metre	MTR	The metre is the basic unit of length in the International System of Units (SI).
Metre Per Hour	M60	The number of meter per hour the trade item or part of the trade item moves.
Metre Per Minute	2X	Metre Per Minute
Metre Per Second	MTS	Defines the speed defined by distance in metres divided by time in seconds.
Metric Carat	CTM	Metric Carat
Microgram	MC	A microgram is one millionth of a gram (0.000001)
Microlitre	4G	A microlitre is one millionth of a litre
Micrometre	4H	A micrometre is one millionth of a metre, also termed Micron.
Micromole	FH	One millionth (10 ⁻⁶) of a mole.
Mile (statute mile)	SMI	A statute mile of 5,280 feet (exactly 1,609.344 meters).
Mile Per Hour (statute mile)	HM	The number of mile per hour the trade item or part of the trade item moves.
Mile Per Minute	M57	The number of mile per minute the trade item or part of the trade item moves.
Mile Per Second	M58	The number of mile per second the trade item or part of the trade item moves.
Miles Per Gallon	X_MPG	Fuel usage by the number of miles the trade item can go on 1 US gallon of fuel.
Millesimai (LM)	X_MLM	A count of attenuation steps or dilution levels representing the homeopathic potency of a substance where each attenuation step represents one part source material combined with 49,999 parts dilution medium; commonly denoted as LM1, LM2, LM3, etc.
Milliampere hour	E09	Milliampere hour
Millibar	MBR	Millibar- a hundred pascals (10 to the 2nd power)
Milliequivalents	MEQ	mEq or milliequivalents, the measure is used in terms of milliequivalents of solute per liter of solvent (or milliNormal where mEq/L = mN). This is especially common for measurement of compounds in biological fluids; for instance, the healthy level of potassium in the blood of a human is defined between 3.5 and 5.0 mEq/L. To better be able to denote the units of measure for nutrients as used in business today.
Milligram	MGM	A milligram is one thousandth of a gram (0.001)
Milligram per Kilogram (mg/kg)	NA	Milligram per Kilogram (mg/kg)
Millilitre	MLT	A millilitre is one thousandth of a litre (0.001)

Appendix A : Net Content Unit of Measure (MI to NU)

Name	Code	Definition
Millimetre Per Hour	H67	The number of millimetre per hour the trade item or part of the trade item moves.
Millimetre Per Minute	H81	The number of millimetre per minute the trade item or part of the trade item moves.
Millimetre Per Second	C16	The number of millimetre per second the trade item or part of the trade item moves.
Millimole	C18	a millimole is one thousandth of a mole.
Million International Unit (NIE)	MIU	A unit of count defining the number of international units in multiples of 106.
Millisecond	C26	A millisecond (from milli- and second; abbreviation: ms) is a thousandth (1/1000) of a second.
Minute (unit of time)	MIN	A minute is a unit of time equal to 1/60th of an hour or 60 seconds
Mole	C34	The mole (symbol mol) is the SI base unit of amount of substance; one of a few units used to measure this physical quantity. A mole will possess mass exactly equal to the substance's molecular or atomic weight in grams. That is to say, a substance's atomic or molecular mass in atomic mass units is the same as its molar mass in grams. Because of this, one can measure the number of moles in a pure substance by weighing it and comparing the result to its molecular or atomic weight
Month	MON	Unit of time equal to 1/12 of a year of 365,25 days
Most Probable Number	MPN	Most Probable Number: is a method of getting quantitative data on concentrations of discrete items from positive/negative (incidence) data..
Mother tincture (Dry material)	X_MTC	A count of a dry crud medical substance Mother tincture, when used for homeopathic preparations, are liquid preparations obtained by the solvent action of a suitable vehicle upon raw materials. The raw materials (medical substance) are usually in the fresh form but may be dried. Mother tinctures for homeopathic preparations may also be obtained from plant juices, with, or without the addition of a vehicle.
Nano Seconds	C47	A nano second is an SI unit of time equal to one thousand-millionth of a second (or one billionth of a second), that is, 10 ⁻⁹ seconds.
Nanogram	X_NGM	A nano gram is 10 ⁻⁹ gram or a billionth of a gram..
Nanolitre	Q34	Nanolitre- Nanolitre is the metric unit of volume equal to one billionth of a litre, which can be represented numerically as 0.000000001/liter.
Nanometre	C45	Nanometre- a billionth of a metre (10 to the negative 9th power)
Net kilogram	58	A unit of mass defining the total number of kilograms after deductions.
Newton	NEW	Newton
Newton Metre	NU	Newton Metre
Number of cells	NCL	Number of cells

Appendix C : Net Content Unit of Measure (NU to PH)

Name	Code	Definition
Number of International Units	NIU	A unit of count defining the number of international units. The International Unit is a unit of measurement for the amount of a substance, based on measured biological activity or effect. The unit is used for vitamins, hormones, some medications, vaccines, blood products, and similar biologically active substances
Number of pairs	NPR	Number of pairs
Ohm	OHM	A unit for electrical impedance, the ratio of the voltage phasor to the electric current phasor.
Oscillations Per Minute	OPM	Oscillations Per Minute
Ounce	ONZ	A unit of mass with several definitions, the most commonly used of which are equal to approximately 30 grams
Ounces per square yard	ON	The weight of one square yard of the material expressed in ounces. Commonly used to express the density or weight of all types of paper, paperboard, and fabric, e.g. 20 OZ or 20 Weight denim has an area density of 20 oz/yd ² . The term density here is used somewhat incorrectly, as density is mass by volume. More precisely, it is a measure of the area density, areal density, or surface density.
Pad	PD	A unit of count defining the number of pads (pad: block of paper sheets fastened together at one end).
Page - hardcopy	QB	A unit of count defining the number of hardcopy pages (hardcopy page: a page rendered as printed or written output on paper, film, or other permanent medium).
Pair	PR	A unit of count defining the number of pairs (pair: item described by two's).
Part per million	59	A unit of proportion equal to 10 ⁻⁶ (ppm).
Pascal	PAL	The pascal (symbol: Pa) is the SI derived unit of pressure, stress, Young's modulus and tensile strength. It is a measure of force per unit area, defined as one newton per square metre.
Pascal Seconds	C65	Pascal second (N s / m ²) is the unit of dynamic viscosity which is also known as the absolute viscosity of the fluid. It is the fluids internal resistance to flow . e.g.: water has dynamic viscosity of 1.787 at 273K or 0 degrees Celsius. and 1.002 Pa-second at 293K i.e. 20degrees Celsius.
Peck	G23	A peck is an imperial and U.S. customary unit of dry volume, equivalent in each of these systems to 2 gallons, 8 dry quarts, or 16 dry pints.
Penny Weight	X_DWT	A pennyweight (abbreviated dwt or denarius weight) is a unit of mass that is equal to 24 grains, 1/20 of a troy ounce, 1/240 of a troy pound, and exactly 1.55517384 grams. (Usage- The pennyweight is the common weight used in the valuation and measurement of precious metals. Jewellers use the pennyweight in calculating the amount and cost of precious metals used in fabricating or casting jewellery. Similarly, dentists and dental labs still use the pennyweight as the measure of precious metals in dental crowns and inlays.)
Percent	P1	A unit of proportion equal to 0.01.
Petabyte	E36	A unit of information equal to 10 ¹⁵ bytes. 1000 Terabytes = 1 Petabyte
pH (potential of Hydrogen)	Q30	The activity of the (solvated) hydrogen ion (a logarithmic measure used to state the acidity or alkalinity of a chemical solution).

Appendix C : Net Content Unit of Measure (PO)

Name	Code	Definition
Picolitre	Q33	Picoliter is the metric unit of volume equal to a trillionth (one millionth of a millionth) of a liter, which can be represented numerically as 0.000000000001/liter. just as the prefix nano denotes a billionth part.
Picometre	C52	Picometre- a trillionth of a metre (10 to the negative 12th power)
Picowatt	C75	Picowatt is a derived metric SI (System International) measurement unit of power. The picowatt is equal to one trillionth of a watt (10 ⁻¹² W).
Piece	H87	A unit of count defining the number of pieces (piece: a single item, article or exemplar).
Pint (UK)	PTI	A pint (UK) is equal to 1/8 Gallon (UK); used primarily as a measure for beer and cider when sold by the glass.
Pixel	E37	A unit of count defining the number of pixels (pixel: picture element).
Pixel per centimetre	X_PPC	A unit of count defining the number of pixels per linear centimetre as a measurement of the resolution of devices in various contexts; typically computer displays, image scanners or digital camera image sensors.
Pixel per inch	X_PPI	A unit of count defining the number of pixels per linear inch (PPI) as a measurement of the resolution of devices in various contexts; typically computer displays, image scanners or digital camera image sensors.
Plaque Forming unit(s)	PFU	Plaque Forming unit(s)
Point	PNT	A single unit on a scale of measurement as part of an incentive program or pricing structure used as a means of making a quantitative evaluation.
Portion	PTN	Portion
Potential Renal Solute Load	PRS	Potential Renal Solute Load
Pound	LBR	The international avoirdupois pound of exactly 0.45359237 kilogram.
Pound per square foot	FP	A non SI unit of Pressure approximately equal to 47.88025 PASCAL's.
Pound per square inch - Absolute	80	Psia (pound-force per square inch absolute) is a unit of pressure pressure relative to a vacuum (such as that in space). At sea level, Earth's atmosphere actually exerts a pressure of 14.7 psi. Humans do not feel this pressure because internal pressure of liquid in their bodies matches the external pressure. If a pressure gauge is calibrated to read zero in space, then at sea level on Earth it would read 14.7 psi. Thus a reading of 30 psig, on Earth, on a tire gauge represents an absolute pressure of 44.7 psi (lb/in ²).
Pound per square inch - Gauge	64	Psig (pound-force per square inch gauge) is a unit of pressure relative to the surrounding atmosphere. At sea level, Earth's atmosphere actually exerts a pressure of 14.7 psi. Humans do not feel this pressure because internal pressure of liquid in their bodies matches the external pressure. If a pressure gauge is calibrated to read zero in space, then at sea level on Earth it would read 14.7 psi. Thus a reading of 30 psig, on Earth, on a tire gauge represents an absolute pressure of 44.7 psi (lb/in ²).

Appendix C : Net Content Unit of Measure (PO to SQ)

Name	Code	Definition
Pound-force per square inch	PS	The pound-force per square inch (symbol: psi or lbf/in ² or lbf/in ²) is a unit of pressure or of stress based on avoirdupois units. It is the pressure resulting from a force of one pound-force applied to an area of one square inch. Other abbreviations are used that append a modifier to "psi". However, the US National Institute of Standards and Technology recommends that, to avoid confusion, any modifiers be instead applied to the quantity being measured rather than the unit of measure[1] For example, "Pg = 100 psi" rather than "P = 100 psig".
Quart (US dry)	QTD	A US dry quart is equal to 1/32 of a US bushel, exactly 1.101220942715 litres.
Retinol Activity Equivalents	X_RAE	A measure of vitamin A activity based on the capacity of the body to convert provitamin carotenoids containing at least one unsubstituted ionone ring to retinaldehyde. 1 microgram RAE = 1 mg retinol = 12 mg β-carotene = 24 mg other vitamin A precursor carotenoids.
Retinol Equivalent (RE)	XRE	A unit used for quantifying the vitamin A value of sources of vitamin A, including both preformed retinoids and precursor carotenoids. Examples include: . One RE is equivalent to 1 mcg of retinol, 6 mcg of Beta-carotene, or 12 mcg of other pro-vitamin A carotenoids. . One RE is equivalent to 0.3 International Units of retinol or 0.1 International Units of Beta-carotene.
Revolutions Per Minute	RPM	Revolutions Per Minute
Roll	XRO	A unit of count defining the number of rolls" where "Roll" is the name of the code value in UN/ECE Recommendation 21, pluralized as appropriate.
Sample per second	X_SPS	A unit of count defining the number of samplings takes during a period of time
Second (unit of time)	SEC	A second is a unit of time equal to 1/60th of a minute.
Serving	X_SER	A unit of count defining the number of servings being referenced. There is a validation limiting the usage of this UoM.
Set	SET	A unit of count defining the number of sets (set: a number of objects grouped together).
Sheet	XST	A unit of count defining the number of "Sheets" where "Sheet" is the name of the code value in UN/ECE Recommendation 21, pluralized as appropriate.
Shipment	SX	A unit of count defining the number of shipments (shipment: an amount of goods shipped or transported).
Sizing Factor	FJ	Sizing Factor
SQ-E	SQE	Number of allergens based on the SQ-E unit
Square centimetre	CMK	A square centimetre is an area of a square whose sides are exactly 1 centimetre in length.
Square decimetre	DMK	A square decimetre is an area of a square whose sides are exactly 1 decimetre in length.

Appendix C : Net Content Unit of Measure (SQ to TH)

Name	Code	Definition
Square foot	FTK	A square foot is an area of a square whose sides are exactly 1 foot in length.
Square inch	INK	A square inch is an area of a square whose sides are exactly 1 inch in length.
Square metre	MTK	A square metre is an area of a square whose sides are exactly 1 metre in length.
Square Metre / Second	S4	Metre squared per second.
Square metre kelvin per watt	D19	Square metre kelvin per watt .The definition is the thermal resistance (or Rd value) of the material, which is measured by the thickness of the material layer divided by the thermal conductivity of the material. and is expressed in m ² K/W.
Square mile	MIK	A square mile is an area of a square whose sides are exactly 1 mile in length.
Square millimetre	MMK	A square millimetre is an area of a square whose sides are exactly 1 millimetre in
Square Yard	YDK	A square yard is the area of a square with sides of one yard (three feet, thirty-six inches, 0.9144 metres) in length
Standard Atmosphere	ATM	Standard Atmosphere
Stere	G26	The stere or stère is a unit of volume in the original metric system equal to one cubic metre. The stère is typically used for measuring large quantities of firewood or other cut wood,
Tablespoon	G24	Tablespoon. 1/2 fluid ounces, 3 teaspoons, 15 millilitres
Tablet	U2	A unit of count defining the number of tablets (tablet: a small flat or compressed solid object).
Teaspoon	G25	Teaspoon. 1/6 fluid ounces or 5 millilitres
Technical Atmosphere	ATT	Technical Atmosphere
Teeth Per Inch	TPI	Teeth Per Inch
Ten Thousandths of an Inch	X_UIN	One Ten Thousandths of an inch or 0.0001 often called a "tenth" in machinery. (Usage- Measurements of some machine parts, gaps in spark plugs).
Terabyte	E35	A unit of information equal to 10 ¹² bytes.
Terahertz	D29	A unit of frequency equal to 10 ¹² Hertz
Terajoule	D30	A terajoule is 10 ¹² joules
Terawatt hour	D32	A terawatt hour is 10 ⁹ * kilowatt hour or 3.6 petajoules.
The milliequivalence caustic potash per gram of product	KO	The milliequivalence caustic potash per gram of product. A unit of count defining the number of milligrams of potassium hydroxide per gram of product as a measure of the concentration of potassium hydroxide in the product.
Thirty Seconds of an Inch	X_SIN	Thirty Seconds of an inch (1/32 or 0.3125). (Usage when measuring using some measuring tapes. Commonly used in model making and some hobbies for scaling to full size. Also used in railway applications.)

Appendix C : Net Content Unit of Measure (TH to YE)

Name	Code	Definition
Thousand cubic metre	R9	Thousand cubic metre
Thousand Litre	D40	References SI system of units of measure
Thousand piece	T3	Thousand piece
Ton (UK) or long ton (US)	LTN	Ton (UK) = 1016 Kg or 2240 Lb.
Ton (US) or short ton (UK)	STN	Ton (US) = 2000 Lb or 907 Kg
Tonne	TNE	Metric ton = 1000 Kg
Torr	UA	Torr
Troy ounce or apothecary ounce	APZ	The troy ounce is a unit of imperial measure. In the present day it is most commonly used to gauge the weight and therefore the price of precious metals. One troy ounce equals 480 grains or 31.1035 grams.
US Gallon Per Minute	G2	US gallon per minute
Use	E55	A unit of count defining the number of times an object is used.
Volt	VLT	Volt
Watt	WTT	A watt is a derived unit of power; one watt is equivalent to 1 joule (J) of energy per second.
Watt hour	WHR	The watt-hour is a unit of energy equivalent to one watt of power expended for one hour of time; it is equal to 3.6 kilojoules. The watt-hour is rarely used to express energy in any form other than electrical.
Week	WEE	A week is a time unit equal to seven days.
Yard	YRD	A yard is It is equal to 3 feet or 36 inches or 0.9144 meter.
Yard Per Hour	M66	The number of yard per hour the trade item or part of the trade item moves.
Yard Per Minute	M65	The number of yard per minute the trade item or part of the trade item moves.
Yard Per Second	M64	The number of yard per second the trade item or part of the trade item moves.
Year	ANN	Unit of time equal to 365,25 days.