

TECHNICAL INFORMATION

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- Insert Selection Guide
- Septa / Liner Selection Guide
- Properties of Glass and Plastics
- Conversion Tables
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SUN/SRI AUTOSAMPLER CROSS REFERENCE GUIDE

Vial Dimensions		6x32	7x30	7x40	8x30	8x40	12x32	12x32	12x32	12x32	15x45	15x45
Closure Size		8mm	8mm	8mm	8mm	8mm	11mm	8-425	9mm	10-425	13-425	15mm
Style of Closure		Crimp Top	Crimp Top	Crimp Top	Crimp Top	Shell Vial & Crimp	Crimp Top Snap Seal	Screw Thread	Screw Thread	Screw Thread	Screw Thread	Shell
Instrument	Model											
Agilent Technologies	1050, 1090A	■										
	8042, 1050, 1100, 1084						■		■			
	7670A, 7671A						■		■			
	1090, 1082, 5890, 6890						■		■			
	7673 I/II, 1080						■		■			
A.I.	42 Vial Tray						■					
	60 Vial Tray				■							
	CTC A200S			■								
A.I.M.	CPS-100, CSP-200						■	■	■			
Alcott	738						■	■	■	■		
Antek	736 Unisampler, 738						■		■			
Beckman	501, 502, 507, 508	■					■	■	■	■		
	504			■								
Bruker	LC 51										■	■
Carlo Erba/Fisons	42 Vial Tray						■		■			
	60 Vial Tray				■							
	AS 105 Tray						■					
	A2005, AS 200 Tray				■							
	AS 800						■	■	■			
	8000							■	■			
	LC1650						■	■	■			
Carnegie	CMA-250/200						■		■			
ChromPak	CP 9000 GC Series						■	■	■			
CTC	CTC A200S			■								
	CTC A105S						■					
Dani	ALS 39.80, 96.80						■	■	■			
Dynatech	42 Vial Tray						■	■	■			
	60 Vial Tray	■	■		■							
	LC2000								■			
Finnigan	A200S			■			■		■			
Fisons	42 Vial Tray						■					
	60 Vial Tray				■							
GBC							■		■			
Gerstel							■		■			
Gilson	233 Sample Changer			■								
	231 XL, 232 XL	■		■			■	■	■			
	233 XL, Asted XL			■			■	■	■			
	Aspec XL						■	■	■			
Gynkotec	Gina, others						■	■	■			
Hitachi	AS-6000, AS-2000						■	■	■			
	AS-4000	■	■									
	S6551							■				
	L-7200							■			■	■
	L-7250				■			■			■	■
Jasco	851-AS, AS-950						■	■	■			
	LC 800 & 900 Series							■				
Kipp							■	■				
Kontron	MSI 660							■			■	■
	360						■	■	■			
	460							■				
LDC	Marathon, Promis						■		■			

Vial Dimensions		6x32	7x30	7x40	8x30	8x40	12x32	12x32	12x32	12x32	15x45	15x45
Closure Size		8mm	8mm	8mm	8mm	8mm	11mm	8-425	9mm	10-425	13-425	15mm
Style of Closure		Crimp Top	Crimp Top	Crimp Top	Crimp Top	Shell Vial & Crimp	Crimp Top Snap Seal	Screw Thread	Screw Thread	Screw Thread	Screw Thread	Shell
Instrument	Model											
LDC (cont.)	AutoMetric 4100						■	■	■			
	713	■	■		■							
L.E.A.P. Technologies	CTC A200S	■	■	■			■	■	■			
	CTC A105S						■	■				
PerkinElmer	Autosystem GC						■	■	■			
	AI-1						■	■	■			
	Integral 4000						■		■			
	ISS 100, ISS 200						■		■			
	LC 600 42 Vial Tray						■		■			
	LC 600 (60)						■		■			
	420/B, 4900				■							
	AS100/B, 300, 8300, AI-1				■							
	AS2000, AS2000B, LC 30				■							
Pharmacia LKB	2157-010						■	■				
	2157-020			■								
Precision Sampling	GC 111				■		■	■				
	GC 311, LC 241-60				■		■	■				
Phillips	LC-XP										■	■
	S 4, S 8, 4700LC/GC				■							
	4247, 4710						■	■				
Shimadzu	AOC-8B/9, SIL-6A							■				
	AOC-14/1400, AOC-17							■			■	■
	SIL-2AS										■	■
	SIL-6B, -7A, -8A, -9A, -10A						■	■	■	■		
	SIL-10A, 10Ai, 10AxL						■	■	■	■		
Spark Holland	SPH 125						■	■	■			
	Marathon						■	■	■			
	Promis						■	■	■			
	Triathlon						■	■				
	Midas						■	■				
Thermo	SpectraSystem						■	■				
	AS3500							■				
	8875, 8880						■	■	■			
TOA	ICA 5450						■	■			■	■
Tosoh	TSK-6080, AS-8010, AS-8020						■		■			
Tracor	770, 771, 772						■		■			
	AS 100/1000, AS 300/3000						■	■	■			
Unicam	4710						■					
	4700GC, S4/S8								■			
	4700LC				■							
	LC-XP							■	■		■	■
	4247							■	■			
Varian Instruments	Dynamix AI-IA, AI200						■	■				
	8100/8200						■	■	■	■		
	8034/8035, 8055/8085, 3800GC							■				
	8000 Series						■	■	■	■		
	Marathon, Vista						■	■	■	■		
	9100/9090/9095						■	■	■	■		
Waters	Alliance® 2690	■					■	■	■	■		
	717 48-Position Tray										■	■
	717 96-Position Tray											■

Limited volume inserts are an economical solution in sample analysis to reduce the use and waste of solvents and small samples. In order to ensure proper instrument performance and test results please use our guide to ensure that the appropriate insert is used with your autosampler vial.

WHAT TO CONSIDER WHEN SELECTING THE PROPER INSERT...

Solvent compatibility

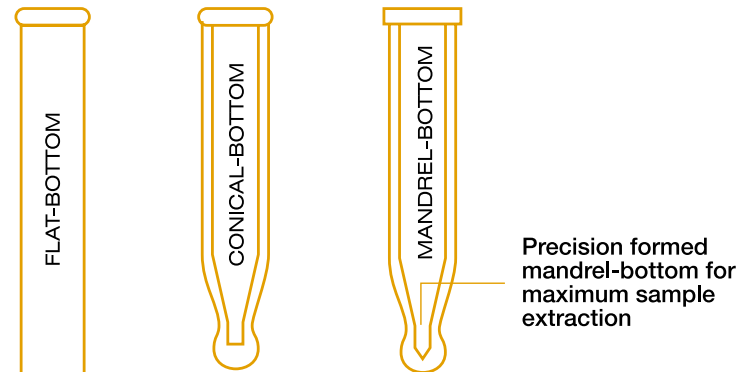
- Glass is most commonly used however polypropylene or polyethylene may be necessary where using pH sensitive samples

Targeted residual volume

- Mandrel point inserts provide the least amount of residual volume when minimum sample loss is necessary
 - Conical bottom inserts provide generally sufficient sample extraction

Price

- Flat bottom inserts are the least expensive alternative when doing limited sampling
 - Mandrel point inserts are most expensive, especially when a polypropylene bottom spring is attached; however, this alternative offers a very efficient insert for injection accuracy and minimizing sample loss.



Inserts for 12x32mm Standard Opening Vials

- May be used with aluminum seal or screw-thread vials
 - Nominal vial volume should be 1.5 to 2mL

Catalog No.	Insert Profile	Nominal Volume	Maximum Volume	Nominal Injectable Volume	Nominal Residual Volume
500 918	Mandrel	100µL	200µL	150µL	1µL
200 238	Conical	200µL	250µL	200µL	3µL
501 306	Conical	200µL	250µL	200µL	3µL
200 232	Flat	200µL	250µL	200µL	3µL

Inserts for 12x32mm Wide Opening Vials

- May be used with aluminum seal, snap ring or 9mm and 10mm screw-thread vials
 - Nominal vial volume should be 1.5 to 2mL

Catalog No.	Insert Profile	Nominal Volume	Maximum Volume	Nominal Injectable Volume	Nominal Residual Volume
500 900	Mandrel	200µL	250µL	200µL	2µL
501 304	Mandrel	200µL	250µL	200µL	2µL
500 304	Conical	250µL	300µL	250µL	2µL
200 650	Conical	250µL	300µL	250µL	2µL
600 013	Conical	250µL	300µL	250µL	2µL
200 668	Flat	350µL	350µL	300µL	3µL

Inserts for 8x40mm Shell Vials

- For use only with flat bottom 8x40mm vials
 - Use of metal springs recommended in most applications for accurate insert alignment

Catalog No.	Insert Profile	Nominal Volume	Maximum Volume	Nominal Injectable Volume	Nominal Residual Volume
500 900	Mandrel	200µL	250µL	200µL	2µL
500 918	Mandrel	100µL	200µL	150µL	1µL
500 304	Conical	250µL	300µL	250µL	2µL
200 650	Conical	250µL	300µL	250µL	2µL
600 013	Conical	250µL	300µL	250µL	2µL

Inserts for 15x45mm Screw Thread Vials

- For use only with flat bottom 15x45mm screw thread vials
 - Use of metal springs recommended in most applications for accurate insert alignment

Catalog No.	Insert Profile	Nominal Volume	Maximum Volume	Nominal Injectable Volume	Nominal Residual Volume
200 758	Mandrel	250µL	350µL	350µL	2µL
501 364	Mandrel	500µL	600µL	450µL	3µL
200 774	Conical	250µL	350µL	250µL	3µL
200 742	Conical	250µL	300µL	250µL	3µL
200 744	Conical	250µL	300µL	250µL	3µL
200 756	Flat	750µL	1.25mL	1mL	4µL

PTFE

- Excellent solvent resistance
- For single injection use only—not recommended for sample storage before or after injection
- Not resealable
- Most economical
- Maximum service temperature 550°C

PTFE/Silicone

- Excellent resealing capabilities—highly recommended for multiple injections and sample storage
- Resists coring and is autoclavable
- PTFE chemical resistance until punctured then the septa/liner will have the compatibility of silicone
- Temperature range -40°C to 200°C

Pre-slit PTFE/Silicone

- Reduces the possibility of coring with blunt tipped needles or for applications using a thin gauge needle
- Used to prevent vacuum from forming inside the vial
- Temperature range -40°C to 200°C

PTFE/Silicone/PTFE

- Above average resealing capabilities—recommended for multiple injections
- Excellent resistance to coring and is autoclavable
- Recommended for demanding applications such as trace analysis, internal standards and or longer time between injections
- Temperature range -40°C to 200°C

PTFE/Red Rubber

- Most economical septa used in routine analysis
- Easily penetrated with moderate resealability
- PTFE chemical resistance until punctured then the septa/liner will have the compatibility of rubber
- Not recommended for multiple injections or holding samples for further analysis
- Temperature range -40°C to 110°C

Molded Polypropylene

- For single injection use only—not recommended for sample storage before or after injection
- Not resealable
- Temperature range 0°C to 130°C

Gray Butyl

- Not suitable for chlorinated solvents, alkanes, benzenes, or cyclohexanes
- Suitable for temperatures of -40°C to 125°C or low pressure applications
- Very economical



Product Specifications

- Manufactured of pure silicone providing excellent resealability
- Remains flexible for indefinite time period at ambient temperatures and in the absence of chlorinated solvents
- Dry heat autoclavable
- Not recommended for reuse

MicroMat CLR Product Dimensions	96-Well Round	96-Well Square	384-Well	8-Well Strips
Plug Diameter (±0.005")	0.278"	0.330"	0.151"	0.278"
Plug Depth (±0.010")	0.130"	0.188"	0.085"	0.130"
Well Spacing (±0.005")	0.354"	0.354"	0.177"	0.354"
Durometer	40	40	30	60
Length (±0.015")	4.644"	4.775"	4.685"	0.323"
Width (±0.015")	3.078"	3.082"	3.069"	3.078"
Slit Length (±0.010")	0.125"	0.125"	0.062"	0.125"
Penetration Area (±0.005")	0.045"	0.045"	0.030"	0.045"

Chemical Compatibility

Chemical compatibility results were determined by testing each solvent in three scenarios. Two HPLC test runs were performed with exposure to solvents for five minutes in each test. The scenarios tested were:

1. The plate was tested alone to determine that the results could be attributed to MicroMat CLR and not the plate itself. No MicroMat CLR was not attached to the plate in this test.
2. MicroMat CLR was affixed to the plate with solvent in the wells. The plate was then turned upside down for accelerated solvent contact with the underside of the MicroMat CLR.
3. MicroMAT CLR was soaked in solvent for complete solvent contact for extreme circumstances.

Solvent Tested	Polypropylene Microplate Used	Cover Upside Down	Cover Soaked in Solvent
Water	None	None	None
Methanol	None	None	Slight
Acetonitrile	None	Some	Slight
Mobile Phase	None	Slight	Slight
DMSO	None	None	None
Chloroform	Not Compatible	—	None
THF	Not Compatible	—	None
Toluene	Not Compatible	—	None

Evaporation Data

MicroMat CLR was tested for 24 hours affixed to a microplate with solvent volumes of 100mL and 200mL. The solvents were incubated at temperatures of -20°C, 4°C and 28°C. Solvents tested were water, acetonitrile and DMSO.

Testing Procedure: Individual plates were filled with each solvent, weighed and sealed with MicroMat CLR. The sealed plates were then incubated at their respective temperatures for 24 hours. The mats were then removed and the plates were reweighed with the remaining solvent to determine the evaporation of the solvents. The percent loss indicated is an average of the two volumes and their respective percent evaporation loss.

Test Temperature	Solvent	Average % Loss
-20°C	Water	0.15%
	Acetonitrile	12%
	DMSO	-1.1%*
4°C	Water	0.4%
	Acetonitrile	19.2%
	DMSO	0.8%
28°C	Water	1.0%
	Acetonitrile	34.3%
	DMSO	-1.2%*

*DMSO is hygroscopic resulting in a actual weight gain.

MicroMat CLR Microplate Compatibility Guide

MicroMat CLR has been engineered to fit commonly used 96-well and 384-well plate formats. The manufacturers listed below have been evaluated for performance; however, there are additional microplates available for use with MicroMat CLR. For best results please acquire samples of this product.

Well Format	Catalog No.	Compatible Microplate Manufacturer
96 Round 7mm	300 003 / 300 002	Greiner, Porvair, Matrix™, Costar®
96 Round 7mm Pre-Slit	300 004 / 300 005	Greiner, Porvair, Matrix, Costar
384 Square	300 006 / 300 007	Greiner, Porvair, Matrix
384 Square Pre-Slit	300 008 / 300 009	Greiner, Porvair, Matrix
96 Round 8mm	300 014 / 300 015	NUNC™
96 Round 8mm Pre-Slit	300 017 / 300 016	NUNC
96 Square MicroMat CLR	300 010 / 300 011	Greiner, Porvair, Matrix
96 Square MicroMat CLR Pre-Slit	300 012 / 300 013	Greiner, Porvair, Matrix

Type 1, Class A Borosilicate Glass

- Composed primarily of silicone and oxygen, with trace amounts of boron and sodium
- Most chemically inert composition of glass readily available for today's laboratories
- Has an expansion coefficient of approximately $33 \times 10^{-7} \text{ } ^\circ\text{C}$

Type 1, Class B Borosilicate Glass

- Composed of silicone and oxygen, trace amounts of boron, sodium and other elements
- This mixture is more alkaline than Class A glass, but is adequate for many uses in the laboratory
- All amber borosilicate glass is made of Class B unless otherwise specified
- Has an expansion coefficient of $51 \times 10^{-7} \text{ } ^\circ\text{C}$

Properties of Plastics

- Low-density polyethylene (L.D.P.E.) is a flexible and translucent material. This material is used to make snap caps, plug closures and selected inserts.
- Polypropylene (P.P.) is a rigid and translucent material, which also comes in a variety of colors. Polypropylene is used for vials, selected closures, inserts and well plates.
- Polymethylpentene (TPX) is a rigid transparent material, which has a relatively high melting point. This material is used for our TPX vial.

Properties	(L.D.P.E.) Low Density Polyethylene	(PP) Polypropylene	(TPX) Polymethylpentene
Transparency	Translucent	Translucent to Opaque	Transparent
Temperature Range	-100°C to 80°C	0°C to 130°C	0°C to 170°C
Weak Acid Effect	Resistant	None	None
Strong Acid Effect	Attacked by Oxidizers	Slow Attack by Oxidizers	Slow Attack by Oxidizers
Weak Base Effect	Resistant	Very Resistant	Resistant
Strong Base Effect	Resistant	Very Resistant	Resistant
Organic Solvent Effect	Resistant	Resistant	Resistant
Sterilization			
Autoclavable	No	Yes	Yes
Gas	Yes	Yes	Yes
Dry Heat	No	No	No

Note: Autoclave Conditions: 121°C 15 psi for 20 minutes

NOTE: Information from Modern Plastics Encyclopedia, 1985-1986, McGraw Hill, and is intended for use as a general guide.

CONVERSION TABLES

Decimal Equivalents of Fractions of an Inch

1/2 = 0.500	13/16 = 0.812	23/32 = 0.718	17/64 = 0.265	43/64 = 0.671
1/4 = 0.250	15/16 = 0.937	25/32 = 0.781	19/64 = 0.296	45/64 = 0.703
3/4 = 0.750	1/32 = 0.031	27/32 = 0.843	21/64 = 0.328	47/64 = 0.734
1/8 = 0.125	3/32 = 0.093	29/32 = 0.906	23/64 = 0.359	49/64 = 0.765
3/8 = 0.375	5/32 = 0.156	31/32 = 0.968	25/64 = 0.390	51/64 = 0.796
5/8 = 0.625	7/32 = 0.218	1/64 = 0.015	27/64 = 0.421	53/64 = 0.828
7/8 = 0.875	9/32 = 0.281	3/64 = 0.046	29/64 = 0.453	55/64 = 0.859
1/16 = 0.062	11/32 = 0.343	5/64 = 0.078	31/64 = 0.484	57/64 = 0.890
3/16 = 0.187	13/32 = 0.406	7/64 = 0.109	33/64 = 0.515	59/64 = 0.921
5/16 = 0.312	15/32 = 0.468	9/64 = 0.140	35/64 = 0.546	61/64 = 0.953
7/16 = 0.437	17/32 = 0.531	11/64 = 0.171	37/64 = 0.578	63/64 = 0.984
9/16 = 0.562	19/32 = 0.593	13/64 = 0.203	39/64 = 0.609	
11/16 = 0.687	21/32 = 0.656	15/64 = 0.234	41/64 = 0.640	

Liquid Measure

	Minims	Drams	Ounces	Gills	CC	Liter
1 Dram =	60	1	0.125	0.03125	3.69661	0.0037
1 Ounce =	480	8	1	0.25	29.5729	0.0296
1 Gill =	1920	32	4	1	118.292	0.1183
1 Milliliter =	16.231	0.2705	0.338	0.0084	1	0.001
1 Liter =	16231.1	270.518	33.8147	8.4536	1000	1
1 Pint =	7680	128	16	4	473.167	0.4731
1 Imp. Pint =			19.21	4.803	568.095	0.568095
1 Quart =			32	8	946.333	0.946333
1 Imp. Quart =			38.43	9.607	1136.486	1.1365
1 Gallon =			128	32	3785.331	3.7853
1 Imp. Gallon =			153.72	38.430	4545.946	4.545946

Units Of Capacity Cubic Centimeters (CC) or Milliliters (mL) to ounces

mL/CC	Ounces	mL/CC	Ounces	mL/CC	Ounces	mL/CC	Ounces	mL/CC	Ounces	mL/CC	Ounces
1	= .0338	6	= .2029	15	= .5072	50	= 1.6905	150	= 5.0715	500	= 16.9050
2	= .0676	7	= .2367	20	= .6762	60	= 2.0286	200	= 6.7620	750	= 25.3575
3	= .1014	8	= .2705	25	= .8453	75	= 2.5358	250	= 8.4525	1000	= 33.8100
4	= .1352	9	= .3043	30	= 1.0143	100	= 3.3810	300	= 10.1430		
5	= .1591	10	= .3381	40	= 1.3524	125	= 4.2263	400	= 13.5240		

Metric Conversion Table (Approximate Conversions)

When you know	Multiply by	to find	When you know	Multiply by	to find
LENGTH					
in	inches	2.54	centimeters		
ft	feet	30	centimeters		
yd	yards	0.9	meters		
mi	miles	1.6	kilometers		
mm	millimeters	0.04	Inches		
cm	centimeters	0.4	Inches		
m	meters	3.3	feet		
m	meters	1.1	yards		
km	kilometers	0.6	miles		
MASS (weight)					
oz	ounces	28	grams		
lb	pounds	0.45	kilograms		
	short tons (2000 lb)	0.9	tons (1000 kg)		
g	grams	0.035	ounces		
kg	kilograms	2.2	pounds		
t	tonnes (1000 kg)	1.1	tons		

CROSS REFERENCE

Scientific Resources Item No.	SUN SRI Catalog No.	Page No.
50001-PS	400 027	48
50003-LL	501 369	48
50003-LL	501 370	48
50003-PS	400 029	48
50003-PS	400 030	48
50005-LL	400 010	48
50005-LL	400 021	48
50005-PS	400 008	48
50005-PS	400 031	48
50010-LL	400 014	48
50010-LL	400 022	48
50010-PS	400 012	48
50010-PS	400 032	48
50020-LL	400 018	48
50020-LL	400 023	48
50020-PS	400 016	48
50020-PS	400 033	48
50030-PS	400 034	48
50030-PS	400 035	48
50050-PS	400 020	48
50050-PS	400 036	48
50201-C	500 132	34
50205-C	500 224	34
54415-S	200 758	29
54417-S	501 364	29
54418-S	600 013	33
54425-S	500 918	7
54432-S	200 232	7
54452-BL	200 668	21
54452-S	200 668	6, 21
54459-S	501 306	7
54459-S	501 330	7
54460-S	500 304	6
54465-S	501 305	6, 21, 24
54465-S	501 305	24
54466-S	501 304	21
54552-S	200 756	29
54615-P	200 744	29
61015-M	400 150	65
61025-M	400 025	61
61026-M	400 026	61
61040-M	400 040	65
61042-M	400 042	65

Scientific Resources Item No.	SUN SRI Catalog No.	Page No.
61044-M	400 044	65
61046-M	400 046	65
61051-M	400 151	65
61052-M	400 052	65
61054-M	400 054	65
61056-M	400 056	65
61058-M	400 058	65
61060-M	400 060	65
61062-M	400 062	65
61066-M	400 066	61
61067-M	400 067	61
61071-M	400 071	61
61073-M	400 073	61
61077-M	400 077	61
61079-M	400 079	61
61083-M	400 083	61
61085-M	400 085	61
63011-M	500 811	62
63013-M	500 813	62
63017-M	500 814	22
63019-M	500 819	62
63033-M	500 833	62
63035-M	500 835	62
63039-M	500 837	62
63041-M	500 841	62
63043-M	500 843	62
63045-M	500 845	62
63047-M	500 847	62
63049-M	500 849	62
68810-C	201 828	34
68813-CB	501 350	22
68813-CG	501 348	22
68813-CR	501 349	22
68813-CY	501 347	22
68814-CB	501 346	22
68814-CY	500 792	22
68815-CB	503 790	22
68815-CG	501 790	22
68815-CR	502 790	22
68815-CY	500 790	22
68816-CB	501 344	22
69122-C	502 070	11
69123-C	200 154	11

Scientific Resources Item No.	SUN SRI Catalog No.	Page No.
69123-C	200 158	11
69123-CZ	200 154	11
69124-C	200 100	11
69124-C	200 104	11
69124-CP	505 584	13
69124-CR	200 130	11
69124-CZ	200 100	11
69124-CZ	200 104	11
69125-C	200 148	11
69125-C	200 152	11
69125-CZ	200 148	11
69127-C	501 310	11
69127-C	501 311	11
69143-CP	501 327	13
69143-P	501 312	12
69145-P	501 317	12
69145-PX	501 317	12
69146-P	501 313	12
69146-PB	501 316	12
69146-PC	501 382	12
69146-PS	501 323	12
69147-CP	501 328	13
69147-P	501 319	12
69147-PB	501 320	12
69147-PY	501 321	12
69148-CP	501 326	13
69148-P	501 385	12
69148-P	501 318	12
69148-PS	501 324	12
69149-P	200 204	12
69150-CP	501 380	13
69150-P	501 314	12
69151-P	501 314	12
69153-P	501 315	12
70075-H	500 334	38
70132-S	200 288	17
70132-S	200 292	17
70134-S	501 378	17
70135-S	500 307	26
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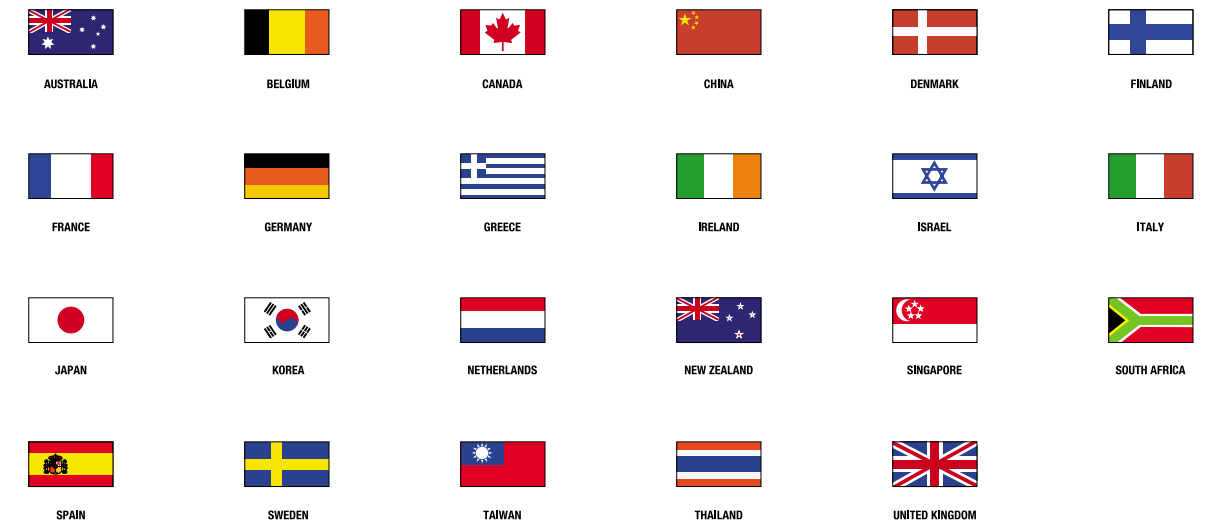
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