



imChem GC capillary columns

*im*Chem

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# IMCHEM GC CAPILLARY COLUMNS



ImChem capillary columns are a product of the collaboration between imChem and a laboratory specialized in research in gas chromatography.

## Quality of the Capillary

All our columns are manufactured from a tube of fused silica, a material that is both extremely pure and possesses very strong chemical inertia.

Its polyimide coating guarantees it the flexibility typical of capillaries used for gas chromatography.

We attach a great deal of importance to the selection of the tube, a stage that is critical for the rest of the process.

## Application of the stationary phase

The stationary phases come from a supplier recognized for the quality of his products in the field of synthesis of polysiloxanes.

After the application phase, each column is cross-linked. This method gives the capillary more strength and extends its life cycle. It also makes it possible for it to be rinsed with solvent.

## Conditioning and complementary tests

The ultimate thermal performance is secured thanks to conditioning, the last stage in the process, a stage that endows the column with stability at high temperatures and a long life cycle.

Following this stage, the capillary is inspected to make sure that the thickness of the coating is even along its entire length.

Strict compliance with these procedures as well as the full range of verifications conducted throughout the manufacturing process guarantee you a perfect reproducibility of results for each one of our columns.

Each column is tested individually on the basis of a mix of specific tests.

The chromatogram test is supplied with the column, as evidence that the product delivered to you meets our quality requirements.

# IM-1 100% Dimethylpolysiloxane

## Features:

Equivalent to USP Phase G2, Non Polar, Bonded and Crosslinked, Wide Range of Applications, High Temperature Range.

## Applications:

Amines, Flavors, Fragrances, Hydrocarbons, PCB's, Pesticides, Phenols.

## Similar Phases:

BP-1, ZB-1, CP-Sil 5CB, DB-1, HP-1, HP-101, Rtx-1, SE-30, SP-2100, SPB-1.

ID mm	Film micron	Temperature Limit (Celsius)	15 Meter	30 Meter	60 Meter
0,25	0.10	-60 to 330/350	1-15A0.10	1-30A0.10	1-60A0.10
	0.25	-60 to 330/350	1-15A0.25	1-30A0.25	1-60A0.25
	0,50	-60 to 330/350	1-15A0.50	1-30A0.50	1-60A0.50
	1,00	-60 to 320/340	1-15A1.00	1-30A1.00	1-60A1.00
0,32	0,10	-60 to 330/350	1-15B0.10	1-30B0.10	1-60B0.10
	0,25	-60 to 330/350	1-15B0.25	1-30B0.25	1-60B0.25
	0,50	-60 to 330/350	1-15B0.50	1-30B0.50	1-60B0.50
	1,00	-60 to 330/350	1-15B1.00	1-30B1.00	1-60B1.00
	1,50	-60 to 320/340	1-15B1.50	1-30B1.50	1-60B1.50
0,53	3,00	-60 to 310/330	1-15B3.00	1-30B3.00	1-60B3.00
	5,00	-60 to 260/280	1-15B5.00	1-30B5.00	X
	0,10	-60 to 320/340	1-15C0.10	1-30C0.10	1-60C0.10
	0,25	-60 to 320/340	1-15C0.25	1-30C0.25	1-60C0.25
	0,50	-60 to 310/330	1-15C0.50	1-30C0.50	1-60C0.50
0,45	1,00	-60 to 310/330	1-15C1.00	1-30C1.00	1-60C1.00
	1,50	-60 to 310/330	1-15C1.50	1-30C1.50	1-60C1.50
	3,00	-60 to 270/290	1-15C3.00	1-30C3.00	1-60C3.00
	5,00	-60 to 270/290	1-15C5.00	1-30C5.00	1-60C5.00
	0,13	-60 to 340/360	1-15D0.13	1-30D0.13	1-60D0.13
0,45	0,42	-60 to 300/320	1-15D0.42	1-30D0.42	1-60D0.42
	1,27	-60 to 300/320	1-15D1.27	1-30D1.27	1-60D1.27
	2,55	-60 to 270/290	1-15D2.55	1-30D2.55	1-60D2.55
	4,25	-60 to 270/290	1-15D4.25	1-30D4.25	1-60D4.25

# IM-1ms 100% Dimethylpolysiloxane

Equivalent to USP Phase G2, Very low bleed characteristics, Bonded and Crosslinked, Non polar.

ID mm	Film micron	Temperature Limit (Celsius)	15 Meter	30 Meter
0.25	0.10	-60 to 330/360	2-15A0.10	2-30A0.10
	0.25	-60 to 330/360	2-15A0.25	2-30A0.25
	0.50	-60 to 330-360	2-15A0.50	2-30A0.50
0.32	0.10	-60 to 320/360	2-15B0.10	2-30B0.10
	0.25	-60 to 330/360	2-15B0.25	2-30B0.25
	0.50	-60 to 330/360	2-15B0.50	2-30B0.50
0.53	0.50	-60 to 330/360	2-15C0.50	2-30C0.50

# IM-5 5% Diphenyl 95% Dimethylpolysiloxane

## Features:

Equivalent to USP Phase G27, Non Polar, Bonded and Crosslinked, High Temperature Range, General Purpose Column, Solvent rinsable.

## Applications:

Alkaloids, Aromatics, Drugs of Abuse, Fatty Acid, Methyl Esters, Herbicides, Hydrocarbons, Halogenated Compounds, pesticides.

## Similar Phases:

BP-5, ZB-5, CP-Sil 8CB, DB-5, HP-5, SPB-5, Rtx-5.



ID mm	Film micron	Temperature Limit (Celsius)	15 Meter	30 Meter	60 Meter
0.25	0,10	-60 to 330/350	5-15A0.10	5-30A0.10	5-60A0.10
	0,25	-60 to 330/350	5-15A0.25	5-30A0.25	5-60A0.25
	0,50	-60 to 330/350	5-15A0.50	5-30A0.50	5-60A0.50
	1,00	-60 to 320/340	5-15A1.00	5-30A1.00	5-60A1.00
0,32	0,10	-60 to 330/350	5-15B0.10	5-30B0.10	5-60B0.10
	0,25	-60 to 330/350	5-15B0.25	5-30B0.25	5-60B0.25
	0,50	-60 to 330/350	5-15B0.50	5-30B0.50	5-60B0.50
	1,00	-60 to 330/350	5-15B1.00	5-30B1.00	5-60B1.00
0,53	0,10	-60 to 310/330	5-15C0.10	5-30C0.10	5-60C0.10
	0,25	-60 to 310/330	5-15C0.25	5-30C0.25	5-60C0.25
	0,50	-60 to 310/330	5-15C0.50	5-30C0.50	5-60C0.50
	1,00	-60 to 310/330	5-15C1.00	5-30C1.00	5-60C1.00
0,45	0,42	-60 to 270/290	5-15D0.42	5-30D0.42	X
	1,27	-60 to 270/290	5-15D1.27	5-30D1.27	X

# IM-5ms 5% Diphenyl 95% Dimethylpolysiloxane

Exact equivalent to IM-5, to USP Phase G27, Very Low Bleed Characteristics, Bonded and Crosslinked, Non Polar.

ID mm	Film micron	Temperature Limit (Celsius)	15 Meter	30 Meter
0.25	0.10	-60 to 330/360	6-15A0.10	6-30A0.10
	0.25	-60 to 330/360	6-15A0.25	6-30A0.25
	0.50	-60 to 330-360	6-15A0.50	6-30A0.50
0.32	0.10	-60 to 320/360	6-15B0.10	6-30B0.10
	0.25	-60 to 330/360	6-15B0.25	6-30B0.25
	0.50	-60 to 330/360	6-15B0.50	6-30B0.50
0.53	0.50	-60 to 330/360	6-15C0.50	6-30C0.50

# IM-20 20% Diphenyl 80% Dimethylpolysiloxane

## Features:

Low to Mid Polarity,  
Bonded and Crosslinked,  
Solvent Rinsable.

## Applications:

Alcoholic Beverages,  
Flavor Aromatics,  
Volatile Compounds.

## Similar Phases:

DB-20,  
Rtx-20,  
SPB-20,  
VOCOL.

ID mm	Film micron	Temperature Limit (Celsius)	15 Meter	30 Meter	60 Meter
0,25	0,10	-20 to 300/320	11-15A0.10	11-30A0.10	11-60A0.10
	0,25	-20 to 300/320	11-15A0.25	11-30A0.25	11-60A0.25
	0,50	-20 to 290/310	11-15A0.50	11-30A0.50	11-60A0.50
	1,00	-20 to 280/300	11-15A1.00	11-30A1.00	11-60A1.00
0,32	0,10	-20 to 300/320	11-15B0.10	11-30B0.10	11-60B0.10
	0,25	-20 to 300/320	11-15B0.25	11-30B0.25	11-60B0.25
	0,50	-20 to 290/310	11-15B0.50	11-30B0.50	11-60B0.50
	1,00	-20 to 280/300	11-15B1.00	11-30B1.00	11-60B1.00
0,53	0,10	-20 to 260/280	11-15C0.10	11-30C0.10	11-60C0.10
	0,25	-20 to 260/280	11-15C0.25	11-30C0.25	11-60C0.25
	0,50	-20 to 260/280	11-15C0.50	11-30C0.50	11-60C0.50
	1,00	-20 to 260/280	11-15C1.00	11-30C1.00	11-60C1.00
	1,50	-20 to 250/270	11-15C1.50	11-30C1.50	11-60C1.50
	3,00	-20 to 240/260	11-15C3.00	11-30C3.00	11-60C3.00

# IM-35 35% Diphenyl 65% Dimethylpolysiloxane

## Features:

Mid Polarity - Low Bleed,  
Bonded and Crosslinked,  
Solvent Rinsable, **Equivalent to USP Phase G42.**

## Applications:

Amines, Aroclors,  
Pesticides,  
Pharmaceuticals.

## Similar Phases:

AT-35, Rtx-35,  
PE-35, DB-35,  
SPB-35, HP-35.

ID mm	Film micron	Temperature Limit (Celsius)	15 Meter	30 Meter	60 Meter
0,25	0,10	40 to 300/320	12-15A0.10	12-30A0.10	12-60A0.10
	0,25	40 to 300/320	12-15A0.25	12-30A0.25	12-60A0.25
	0,50	40 to 300/320	12-15A0.50	12-30A0.50	12-60A0.50
	1,00	40 to 280/300	12-15A1.00	12-30A1.00	12-60A1.00
0,32	0,10	40 to 300/320	12-15B0.10	12-30B0.10	12-60B0.10
	0,25	40 to 300/320	12-15B0.25	12-30B0.25	12-60B0.25
	0,50	40 to 300/320	12-15B0.50	12-30B0.50	12-60B0.50
	1,00	40 to 300/320	12-15B1.00	12-30B1.00	12-60B1.00
	1,50	40 to 280/300	12-15B1.50	12-30B1.50	12-60B1.50
	0,53	0,10	40 to 280/300	12-15C0.10	12-30C0.10
	0,25	40 to 280/300	12-15C0.25	12-30C0.25	12-60C0.25
	0,50	40 to 280/300	12-15C0.50	12-30C0.50	12-60C0.50
	1,00	40 to 280/300	12-15C1.00	12-30C1.00	12-60C1.00
	1,50	40 to 260/280	12-15C1.50	12-30C1.50	12-60C1.50
0,45	0,42	40 to 300/320	12-15D0.42	12-30D0.42	x
	0,85	40 to 280/300	12-15D0.85	12-30D0.85	x

# IM-1301 6% Cyanopropylphenyl Methylpolysiloxane

## Features:

Low to Mid Polarity, Bonded and Crosslinked, Solvent Rinsable. **Equivalent to UPS Phase G43.**

## Applications:

Volatile Organics, Pharmaceutical Samples, Alcohols, Aroclors, PCB's, Oxygenates, Pesticides.

## Similar Phases:

DB-1301, HP-1301, PE-1301, Rtx-1301.

ID mm	Film micron	Temperature Limit (Celsius)	15 Meter	30 Meter	60 Meter
0,25	0,10	-20 to 280/300	9-15A0.10	9-30A0.10	9-60A0.10
	0,25	-20 to 280/300	9-15A0.25	9-30A0.25	9-60A0.25
	0,50	-20 to 280/300	9-15A0.50	9-30A0.50	9-60A0.50
	1,00	-20 to 280/300	9-15A1.00	9-30A1.00	9-60A1.00
0,32	0,10	-20 to 280/300	9-15B0.10	9-30B0.10	9-60B0.10
	0,25	-20 to 280/300	9-15B0.25	9-30B0.25	9-60B0.25
	0,50	-20 to 280/300	9-15B0.50	9-30B0.50	9-60B0.50
	1,00	-20 to 280/300	9-15B1.00	9-30B1.00	9-60B1.00
0,53	0,10	-20 to 260/280	9-15C0.10	9-30C0.10	9-60C0.10
	0,25	-20 to 260/280	9-15C0.25	9-30C0.25	9-60C0.25
	0,50	-20 to 260/280	9-15C0.50	9-30C0.50	9-60C0.50
	1,00	-20 to 260/280	9-15C1.00	9-30C1.00	9-60C1.00
	1,50	-20 to 260/280	9-15C1.50	9-30C1.50	9-60C1.50
	3,00	-20 to 260/280	9-15C3.00	9-30C3.00	9-60C3.00

# IM-1701 14% Cyanopropylphenyl Methylpolysiloxane

## Applications:

Pharmaceuticals Samples, Alcohols, Oxygenates, Pesticides, Aroclors, PCBs, Solvents.

## Similar Phases:

BP-10, CB-1701, CP-Sil 19CB, DB-1701, Rtx-1701.

ID mm	Film micron	Temperature Limit (Celsius)	15 Meter	30 Meter	60 Meter
0,25	0,10	-20 to 280/300	10-15A0.10	10-30A0.10	10-60A0.10
	0,15	-20 to 280/300	10-15A0.15	10-30A0.15	10-60A0.15
	0,25	-20 to 280/300	10-15A0.25	10-30A0.25	10-60A0.25
	0,50	-20 to 280/300	10-15A0.50	10-30A0.50	10-60A0.50
0,32	1,00	-20 to 280/300	10-15A1.00	10-30A1.00	10-60A1.00
	0,10	-20 to 280/300	10-15B0.10	10-30B0.10	10-60B0.10
	0,15	-20 to 280/300	10-15B0.15	10-30B0.15	10-60B0.15
	0,25	-20 to 280/300	10-15B0.25	10-30B0.25	10-60B0.25
0,53	0,50	-20 to 280/300	10-15B0.50	10-30B0.50	10-60B0.50
	1,00	-20 to 280/300	10-15B1.00	10-30B1.00	10-60B1.00
	0,10	-20 to 260/280	10-15C0.10	10-30C0.10	10-60C0.10
	0,25	-20 to 260/280	10-15C0.25	10-30C0.25	10-60C0.25
	0,50	-20 to 260/280	10-15C0.50	10-30C0.50	10-60C0.50
	1,00	-20 to 260/280	10-15C1.00	10-30C1.00	10-60C1.00
	1,50	-20 to 260/280	10-15C1.50	10-30C1.50	10-60C1.50

# IM-225 50% Cyanopropylmethyl 50% Phenylmethylpolysiloxane

## Features:

Equivalent to USP Phase G7, Mid/High Polarity, Bonded and Crosslinked, Solvent Rinsable, Low Bleed.

## Applications:

Fatty Acid Methyl Esters, (FAME), PUFA, Alditol, Neutral Sterols.

## Similar Phases:

007-225, DB-225,  
BP-225, HP-225,  
CP-Sil 43CB, Rtx-225.

ID mm	Film micron	Temperature Limit (Celsius)	15 Meter	30 Meter
0,25	0,10	40 to 220/240	13-15A0.10	13-30A0.10
	0,15	40 to 220/240	13-15A0.15	13-30A0.15
	0,25	40 to 220/240	13-15A0.25	13-30A0.25
	0,50	40 to 220/240	13-15A0.50	13-30A0.50
0,32	0,10	40 to 220/240	13-15B0.10	13-30B0.10
	0,15	40 to 220/240	13-15B0.15	13-30B0.15
	0,25	40 to 220/240	13-15B0.25	13-30B0.25
	0,50	40 to 220/240	13-15B0.50	13-30B0.50
0,53	0,10	40 to 200/220	13-15C0.10	13-30C0.10
	0,25	40 to 200/220	13-15C0.25	13-30C0.25
	0,50	40 to 200/220	13-15C0.50	13-30C0.50
	1,00	40 to 200/220	13-15C1.00	13-30C1.00
0,45	0,85	40 to 200/220	13-15D0.85	13-30D0.85

# IM-624 Analysis of Priority Pollutants

ID mm	Film micron	Temperature Limit (Celsius)	30 Meter	60 Meter
0,25	1,40	-20 to 260	7-30A1.40	7-60A1.40
0,32	1,80	-20 to 260	7-30B1.80	7-60B1.80
0,53	3,00	-20 to 260	7-30C3.00	X

Feel free to contact us for a special length, Phase, ID or film thickness. Please contact our sales Department for a special quote at [info@imchem.fr](mailto:info@imchem.fr).



# Carbowax 20M Polyethylene Glycol (PEG)

## Features:

Equivalent to USP G16,  
High Polarity, Bonded and  
Crosslinked, Solvent  
Rinsable.

## Applications:

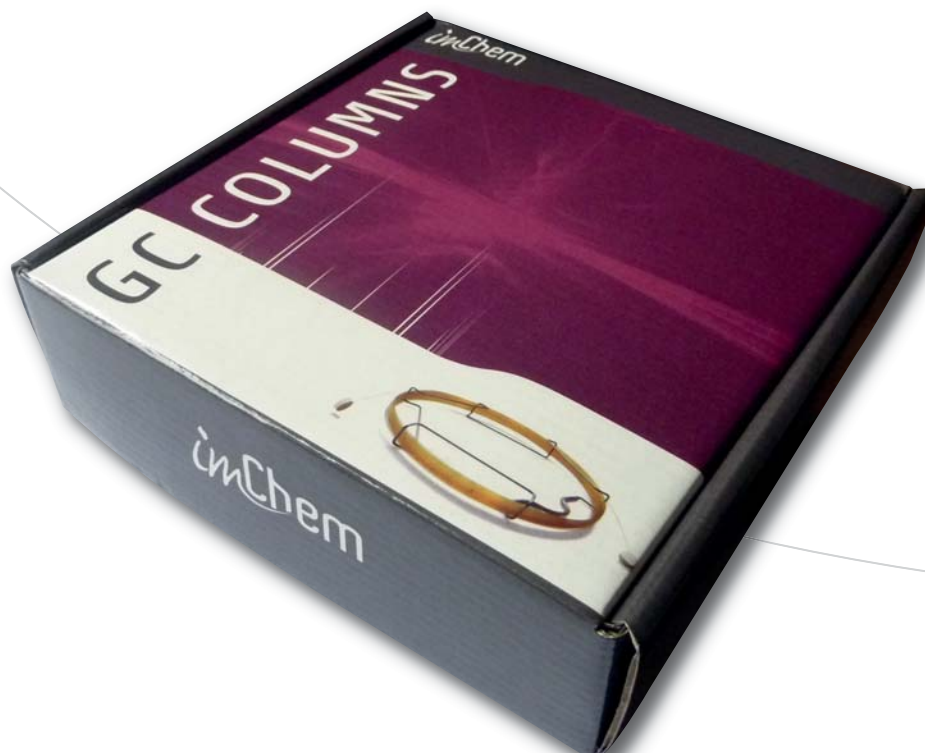
Alcohols, Aromatics,  
Essential Oils, Glycols,  
Polar Solvents.

## Similar Phases:

CP-Wax,  
DB-Wax,  
HP-Innowax,  
PE-Wax,  
Rtx-Wax.



ID mm	Film micron	Temperature Limit (Celsius)	15 Meter	30 Meter	60 Meter
0,25	0,10	20 to 250/260	8-15A0.10	8-30A0.10	8-60A0.10
	0,15	20 to 250/260	8-15A0.15	8-30A0.15	8-60A0.15
	0,25	20 to 250/260	8-15A0.25	8-30A0.25	8-60A0.25
	0,50	20 to 250/260	8-15A0.50	8-30A0.50	8-60A0.50
0,32	1,00	20 to 250/260	8-15A1.00	8-30A1.00	8-60A1.00
	0,10	20 to 250/260	8-15B0.10	8-30B0.10	8-60B0.10
	0,15	20 to 250/260	8-15B0.15	8-30B0.15	8-60B0.15
	0,25	20 to 250/260	8-15B0.25	8-30B0.25	8-60B0.25
0,53	0,50	20 to 240/250	8-15B0.50	8-30B0.50	8-60B0.50
	1,00	20 to 230/240	8-15B1.00	8-30B1.00	8-60B1.00
	0,25	20 to 230/240	8-15C0.25	8-30C0.25	8-60C0.25
	0,50	20 to 230/240	8-15C0.50	8-30C0.50	8-60C0.50
	1,00	20 to 230/240	8-15C1.00	8-30C1.00	8-60C1.00



# NOTES

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