



### Stainless steel frits – unidense type

For both standard frits and those produced to custom specifications, these frits offer unexcelled reproducibility and precision. Proprietary manufacturing processes ensure uniformity and precise, repeatable dimensional control.

Stainless steel frits are manufactured of SS316L, which has extra-low carbon content. The sintering process used results in a strong bonding of the sinter metal particles. Depending on the grade of powder used, the porosity of the frit can be precisely tuned. Sold in packages of 5.

#### SPECS

- Material: Stainless steel Type 316L sintered
- Tolerances: See chart below

OD		Thickness		Porosity	Frit volume	Product No.
inches	mm	inches	mm	μm	μL	
1/16"	1.59	.030"	0.76	0.5	0.39	JR-.5FR1-5
				1	0.45	JR-1FR1-5
				2	0.53	JR-2FR1-5
				10	0.60	JR-10FR1-5
1/8"	3.18	.040"	1.02	0.5	2.10	JR-.5FR2-5
				1	2.43	JR-1FR2-5
				2	2.83	JR-2FR2-5
				10	3.24	JR-10FR2-5
1/4"	6.35	.040"	1.02	0.5	8.39	JR-.5FR4-5
				2	11.30	JR-2FR4-5
				10	12.91	JR-10FR4-5
3/8"	9.53	.040"	1.02	0.5	18.91	JR-.5FR6-5
				2	25.45	JR-2FR6-5
				10	29.09	JR-10FR6-5
1/2"	12.70	.040"	1.02	0.5	33.58	JR-.5FR8-5
				2	45.2	JR-2FR8-5
				10	51.66	JR-10FR8-5
1"	25.40	.060"	1.52	2	269.43	JR-2FR1K-5
				10	307.92	JR-10FR1K-5

#### OPTIONS

- Standard frits do not have chamfers. Chamfered frits are available on request.
- Other dimensions and porosities are available on request. Minimum order quantity: 100 pieces. Please contact your local distributor or VICI directly.

#### TOLERANCES

OD (mm)	Tolerance
<5	±0.05 mm (.002")
5-12	±0.08 mm (.003")
12.5-25.4	±0.20 mm (.008")

#### NOTES

- Stated porosities are only nominal and do not reflect the maximum pore size of a frit.
- See frit volume chart for help choosing the right frit and porosity for your application. . . . . 95
- Frit volumes are theoretical and are calculated by multiplying overall frit volume times the porosity proportion.

#### RELATED PRODUCTS

PEEK-encased frits	
Stainless . . . . .	74
Titanium . . . . .	75

### Titanium frits – unidense type

- Biocompatible
- Recommended for protein analysis
- High corrosion resistance
- Various pore sizes and diameters

Titanium is preferred over stainless steel for applications related to the analysis of sensitive substances in general and large biomolecules in particular. Evidently proteins have a tendency to adsorb on the stainless steel (iron) frit and consequently reduce recovery or may even decompose. Titanium also offers higher corrosion resistance and can be used with solvents containing halides.

Sold in packages of 5.

OD		Thickness		Porosity	Frit volume	Product No.
inches	mm	inches	mm	μm	μL	
1/16"	1.59	.030"	0.76	0.5	0.82	JR-.5FR1TI-5
				2	0.71	JR-2FR1TI-5
1/8"	3.18	.040"	1.02	2	2.83	JR-2FR2TI-5
1/4"	6.35	.040"	1.02	2	11.30	JR-2FR4TI-5
3/8"	9.53	.040"	1.02	2	25.45	JR-2FR6TI-5
1/2"	12.70	.040"	1.02	2	45.2	JR-2FR8TI-5
				10	51.66	JR-10FR8TI-5
1"	25.40	.060"	1.52	2	180.80	JR-2FR1KTI-5

#### SPECS

- Material: Titanium, sintered
- Tolerances: See chart at left

