

Super PFA Tube

TEFLON® PFA 451 HP-J

Our new PFA (TEFLON® PFA 450-J) tubing advances the application of fluorocarbon resins through a high-purity chemical process. Our innovative Super PFA-TEFLON®451-HP-J TUBE not only maintains the advantages of new PFA, but also has the following properties:

● **Tube inner surface is extremely smooth**

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The ultra-fine particles of Super PFA material creates a very smooth surface that reduces the remains of chemical liquids and is easier to clean. Plus, owing to the small area, it reduces permeation and has higher transparency.

● **Comparison between particle and surface** Unit: μ m

Item	451HP-J	450HP-J	Other companies'
Particle size	5	48	53
Ra	0.04	0.35	0.08
Rmax	0.30	1.85	0.55

● **Benefits of increased crystallization**

Owing to its ultra-fine particles, Super PFA tubing has high permeability resistance to liquids, and a lower absorptive rate. It also has advanced physical properties, including hardness, tensile strength, and compressibility.

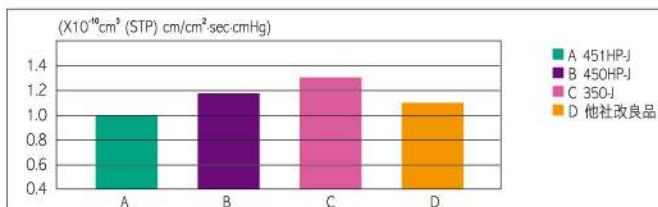
● **Standard dimensions**

Consult our PFA tube standard specifications

● **Comparison of crystallization from finished products**

Item	UNIT	451HP-J	450HP-J	350	Other companies'
Inside tube	%	33.40	30.10	29.90	27.00
Outside tube	%	36.90	34.10	33.90	36.40

● **Comparison of Chlorine gas permeation**



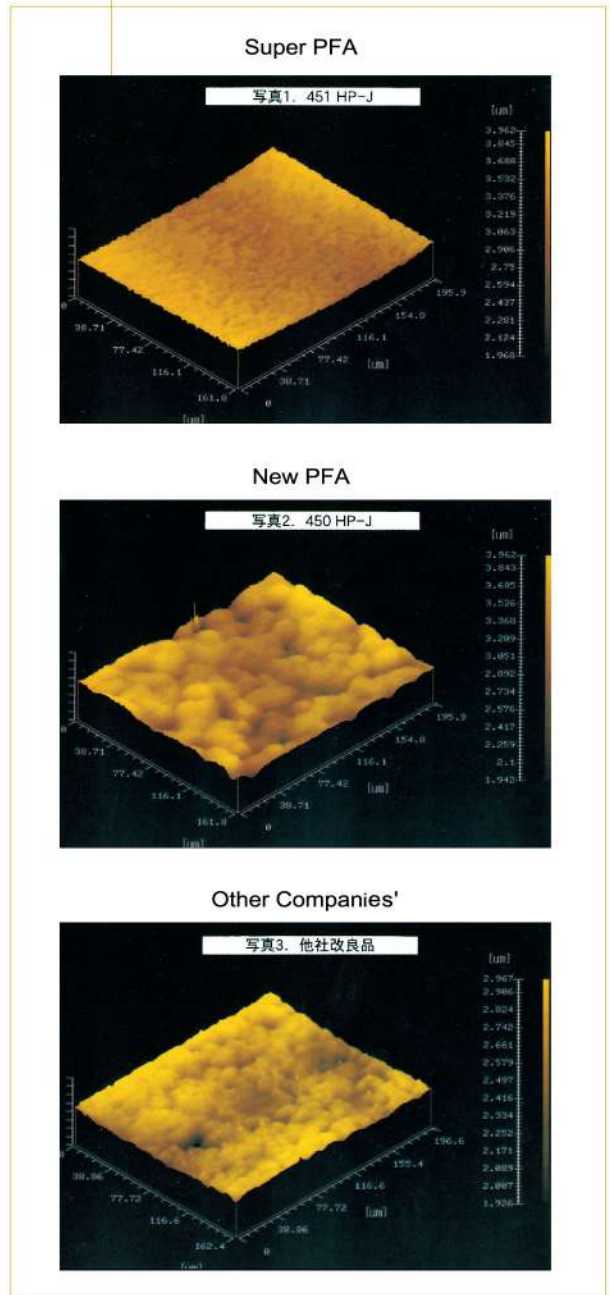
● **Test results for metal ion extraction**

unit: ng/g

Item	Metal ions									
	Fe	K	Na	Ca	Cr	Mn	Co	Ni	Zn	Mo
451 HP-J	7.1	1.9	3.5	7.8	0.7	ND	ND	3.0	ND	ND

Note: The sampling pellet was taken from a raw material pack, and then extracted with hydrofluoric acid. The result is metal ion content in the pellet.

Resource: 1. Above data are excerpted from Dupont mitsui chemical co., brochure.
2. TEFLON, Super PFA, New PFA are registered trademarks of Dupont.



Transparency comparison

