

EVER **STRONG** EVEN AT 110°C



FlowGuard® Plus absolutely a class apart



The Ever Evolving Mindset

Upgrading the FlowGuard® Plus piping from cell class of 23447 to 23448 bears the testimony to Lubrizol's philosophy to move cleaner, create smarter, live better.

The Endorsement

The certification conferred from none other than NSF International gives FlowGuard® Plus Piping the unmatched authenticity for its superlative quality.



The Differentiator

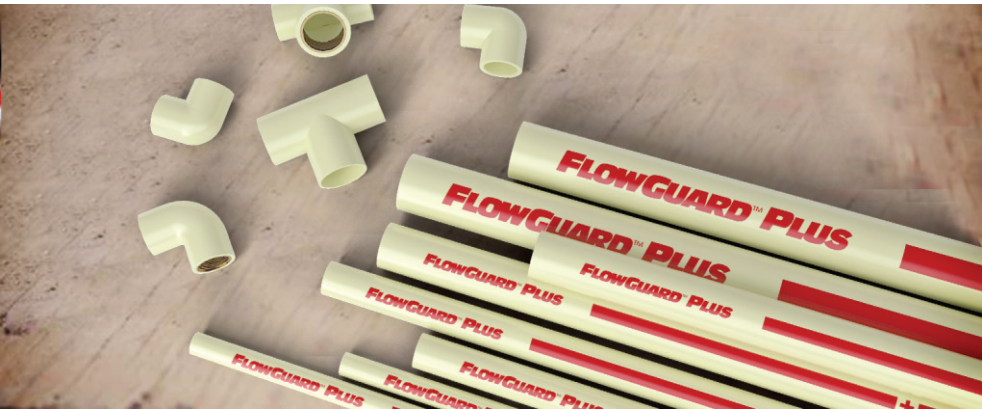
The improvement of deflection temperature prerequisite from 100 degrees (for cell class 23447) to 110 degrees (for cell Class 23448) extends FlowGuard® Plus with the plethora of benefits.

The Benefits

An increased capacity of FlowGuard® Plus piping to withstand higher temperatures substantially boosts its durability making it the most pertinent solution for the application areas which demand very hot flow.



FLOWGUARD® PLUS
CPVC PLUMBING SYSTEMS™



TECHNICAL UPDATE ON CELL CLASSIFICATION

It gives us a sense of pleasure to announce that we received an NSF approval on the cell classification of our compound as per ASTM D1784 which complies to all the requirements of NSF/ANSI14 listing.

This enables FlowGuard® Plus CPVC to differentiate further from the generic CPVC available by the way of simple mention of NSF certified as per ASTM D1784 with upgraded cell class 23448 in place of 23447.

Plumbing Products			
FlowGuard® Plus		Other CPVC Products	
SDR-11	23448	ASTM Cell Class	23447
	8.79 kg/cm ² @ 82°C 28.1 kg/cm ² @ 23°C	Pressure Ratings	7.03 kg/cm ² @ 82°C 28.1 kg/cm ² @ 23°C
SDR-13.5	23448	ASTM Cell Class	23447
	7.03 kg/cm ² @ 82°C 22.5 kg/cm ² @ 23°C	Pressure Ratings	5.62 kg/cm ² @ 82°C 22.5 kg/cm ² @ 23°C

WHAT IS THE DIFFERENCE?

Cell class requirements of CPVC compounds as per ASTM 1784 standard												
Cell Class								23447	23448			
Property & Unit	0	1	2	3	4	5	6	7	8	9	10	11
min, 1.82 Mpa (264 psi): °C	Unspecified	<55	55	60	70	80	90	100	110	120	130	140
min, 1.82 Mpa (264 psi): °F		<131	131	140	158	176	194	212	230	251	266	284
Other CPVC Products								FlowGuard® Plus				

The detailed clarification is mentioned in table as above which concludes as:

The two cell classes differ considerably in DEFLECTION TEMPERATURE, and other properties like impact remain same.

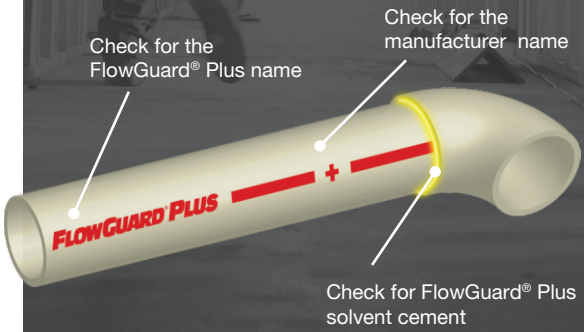
Cell class – 23447 - deflection temp. min. temp. in deg. Cen. is 100 to be met

Cell class – 23448 - deflection temp. min. temp. in deg. Cen. is 110 to be met

Please refer the link for more details: [NSF Product listing category page](#)

GLOBALLY APPROVED

FlowGuard® Plus Pipes, fittings and solvent cement have worldwide approvals for potable water use. Our compounds are NSF-PW certified. FlowGuard Plus pipes, fittings and solvent cement made by our partners also meet code requirements of ASTM (America), JIS (Japan), DVGW (Germany), WRAS (UK), CSTB (France), KIWA (The Netherlands), TSE (Turkey) & CSA (Canada), BIS (India).



Visit www.flowguard.com/en-in/ or call Toll-free number - **18001021520** to learn more.

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FLOWGUARD® PLUS CPVC PLUMBING SYSTEMS™

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18-125339

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