

# PPR nanometer anti-bacteria pipe

## Background technology

In the building, the cold and hot water use the galvanization steel pipe line system more than hundred years historically, the majority water quality monitor data indicated that the main reason which caused the pipe water "reddish" and "blackish" serious in the building is the steel pipe inner corrosion. In order to improve the water quality and guarantee the water quality, since 1st of June 2000 the Ministry of Construction stipulated that it is forbidden to use galvanization steel pipe in the construction water supply work. It may be replaced by plastic tube, multi-layer pipe and so on. Polypropylene pipe and fittings, because of the strong corrosion resistance ability, easy to connect, moderately-priced, hard body and so on the merits, is one of most commonly used tubing. But at present polypropylene tubing sells in market can achieve hygienic and the health request, but cannot eliminate the bacterium in the water. Therefore new polypropylene pipe, which not only conform to the hygienic and health requirement but also eliminate the bacterium in the pipe system, is eagerly expected.



## Sizes and Specifications

Nomial Diameter $d_n$	Average Diameter		Pipe line system				Wall thickness
			S5	S4	S3.2	S2.5	
	$d_{cm,min}$	$d_{cm,max}$	$d_{e_n}$				
12	12	12.3	—	—	—	1.8	0.2
16	16	16.3	—	1.8	2.1	2.5	
20	20	20.3	1.8	2.1	2.6	3.3	
25	25	25.3	2.1	2.6	3.3	4	
32	32	32.3	2.7	3.4	4.2	5.2	
40	40	40.4	3.5	4.3	5.3	6.5	
50	50	50.5	4.4	5.4	6.7	8.1	
63	63	63.6	5.6	6.9	8.4	10.3	
75	75	75.7	6.6	8.2	10.1	12.3	
90	90	90.9	8	9.9	12.1	14.8	
110	110	111	9.8	12.1	14.9	18.1	
125	125	126.2	11.2	13.8	16.9	20.6	
140	140	141.3	12.5	15.5	19	23.1	
160	160	161.5	14.4	17.7	21.7	26.4	

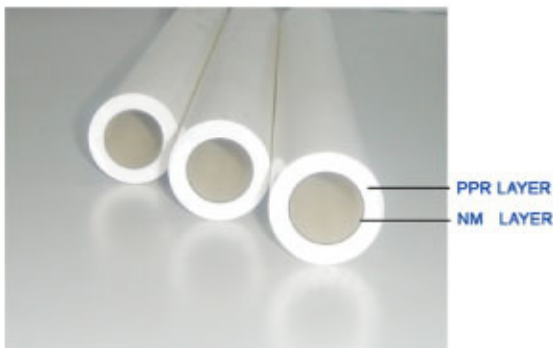


## Structure and characteristic of PP-R nanometer resists bacteria pipe

PP-R nanometer resist bacteria tubing is constructed by polypropylene for the main body and nanometer resist bacteria inner layer. Using two layer co-extrude technology, the outer layer is the normal, the inner layer is used the polypropylene added nanometer resist bacteria batch.

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Our company nanometer resist bacteria PP-R tubing develops successfully, not only solved the people to live thoroughly the tap water two pollution, and could kill in effectively the water source the harmful bacterium, improved the people tap water quality greatly. It will develop inevitably can give the construction water supply pipeline profession successfully to bring a new revolution. Its application value and the commercial value are other tubing incomparable.



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PPR pipe

The simple workmanship, easy to produce, not to need special equipment, except the concurrently ordinary polypropylene service pipe material corrosion resistance strong strength, easy to melt connection, moderate price, hard body merits, but also can eliminate the bacterium fungus, mildew in water pipe, also can effectively restrain colon bacillus, golden color staphylococcus. The resist bacteria effect is lasting, it can satisfy in the people daily life to the water supply pipeline resisting-bacteria request, has the very profound social efficiency and the economic efficiency.

According to the GB code GB15979-1995 test method, to implements the example the nanometer resist bacteria polypropylene tube to carry on the resist bacteria experiment, the result tabulation is as follows:

Testing time ( h )		6h	12h	24h	half an year later	one year later	two years later
Bactericidal coefficient	Backwoods coli	51%	74%	95%	90.50%	90%	90%
	golden yellow staphylococcus	44%	66%	91%	86.40%	86%	86%
	White rosary fungus	31%	58%	82%	75%	75%	75%