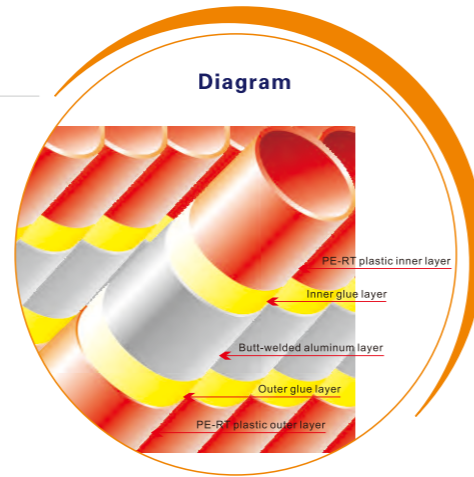


Product executive standard

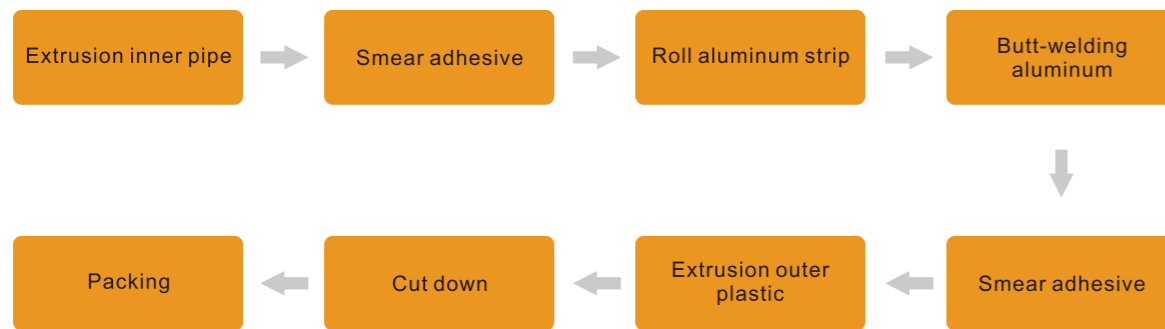
UNE 53961 CJ/T 159-2006

Product introduction

PERT-AL-PERT butt-welding aluminum-plastic composite pressure pipe, is a kind of aluminum-plastic composite pressure pipe which the embed metal layer is butt-welding aluminum alloy pipe, the inner layer and outer layer is resistant-temperature polyethylene (PERT), and each layer are composited by hot melt adhesive.



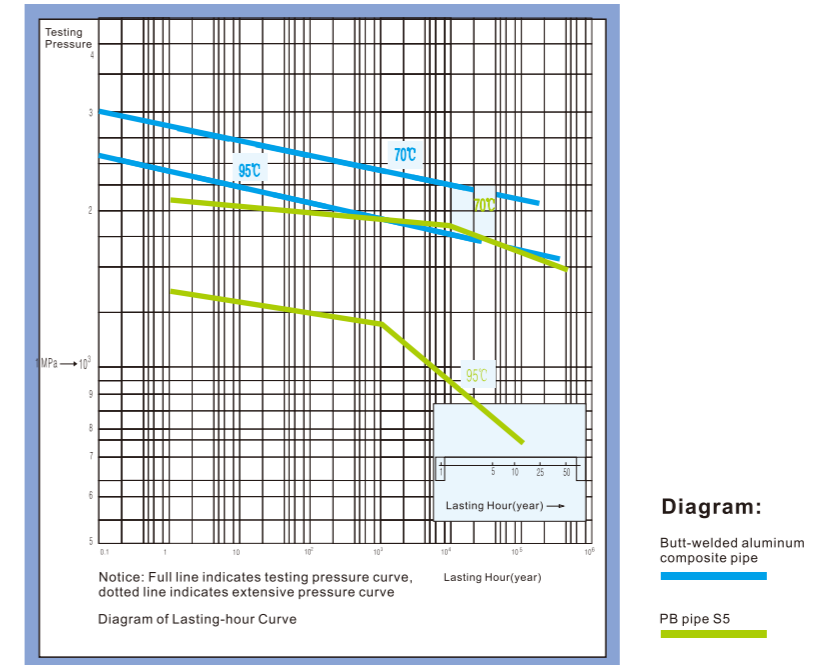
One-time molding technology



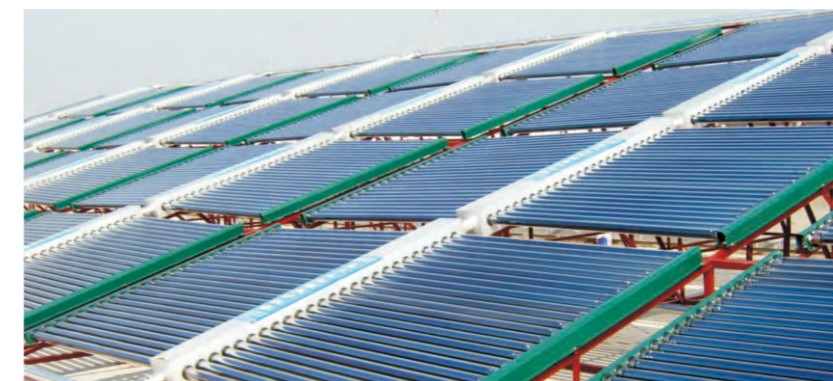
Product characteristic

- A kind of metal pipe covered with plastic protect layer. The only one of plastic composite pipe accord with the requirement of using 95°C hot water at present.
- The thickness of Aluminum accord with ASTM standard and Pipe working pressure is high.
- Using argon arc welding, safety and strong.
- The special and professional process and the strict testing standard which is higher than industry standard. Good adhesive performance in normal temperature and high temperature.

- The long-time work temperature is 95°C, the work pressure could reach 1.25Mpa.



- Safety and long working life.



- The coefficient of linear expansion is low. Using without deformation.
- Good at oxygen barrier, avoid corrosion of metal parts.
- Smooth plastic inner layer and outer layer, avoid corrosion and deposition by settling.

Product main performance

Item	Test parameter			Index		
	Temperature(°C)	Time (hour)	Pressure (MPa)	Radial force (N)	Blast pressure (MPa)	Pipe ring minimum average stripping force (N)
Pipe ring radial tension	Dn16			2300	≥ 8.00	25
	Dn20			2500	≥ 7.00	28
	Dn25			2890	≥ 6.00	30
	Dn32			3270	≥ 5.50	35
Expanding test				Without degumming between inner/outer layer and metal layer, without break of inner/outer layer		
Hydrostatic strength	95	1	2.42	Without break, partly spherical expansion, leakage		
	95	1000	1.93	Without break, partly spherical expansion, leakage		

Advantage

1. Kingbull PERT-AL-PERT butt-welding aluminum-plastic composite pressure pipe and double-fusion connection technology inherit the advantage of butt-welding aluminum-plastic composite pipe which is high bearing capacity and high temperature resistance. At the same time, they overcome the disadvantage of traditional aluminum-plastic composite pipe which is mechanical connection and easy to leakage. It's an initiate technology in China and an advanced technology in global.

2. The main performance accord to German standard and higher than the standard. For example: the expanding test, standard requires belling 1.13 times and our test require belling 1.3 times. The pipe have good welding and adhesive performance, peel strength reach 60~110 N/mm, and through the 5000 times cold-hot water cycling test.

3. The first manufacturer that accomplished long-time high temperature performance. (3 month 80°C hot water cycling test)

Applied

Building cold and hot water system.
Solar energy pipeline system.
The high temperature heating system.
Oil wellbore of heavy oil viscosity reduction system.
Industry pipeline system.


Product specification


Nominal diameter (mm)	Packing length (m/pcs)
dn16	100
dn20	100
dn25	100
dn32	50


Specification :





Item	Specification	Package(M/Ctn)
rrap5 butt-welded composite pipe	16	100
	20	100
	25	100
	32	50


Equal union	Specification	Package (Pcs/Ctn)
	16	200
	20	120
	25	100
	32	120


Equal Tee	Specification	Package (Pcs/Ctn)
	16	60
	20	60
	25	40
	32	50


90° Elbow	Specification	Package (Pcs/Ctn)
	16	120
	20	160
	25	120
	32	70


Male Adapter	Specification	Package (Pcs/Ctn)
	16×(1/2)"	60
	20×(1/2)"	60
	20×(3/4)"	60
	25×(1/2)"	60
	25×(3/4)"	50
	32×(3/4)"	40
	32×1"	20


Female Adapter	Specification	Package (Pcs/Ctn)
	16×(1/2)"	70
	20×(1/2)"	70
	20×(3/4)"	60
	25×(1/2)"	60
	25×(3/4)"	50
	32×(3/4)"	40
	32×1"	24


Female Elbow with plate	Specification	Package (Pcs/Ctn)
	20×(1/2)"	30
	25×(3/4)"	30


Unequal union	Specification	Package (Pcs/Ctn)
	20X16	120
	25X16	80
	25X20	80
	32X20	60
	32X25	60

Unequal Tee	Specification	Package (Pcs/Ctn)
	25×20×20	80
	20×25×20	80
	25X20	80
	32X20	60
	32X25	60

Unequal Elbow	Specification	Package (Pcs/Ctn)
	25X20	140
	32X20	100
	32X25	80

45° Elbow	Specification	Package (Pcs/Ctn)
	20	100
	25	150
	32	80

Female Elbow	Specification	Package (Pcs/Ctn)
	16×(1/2)"	60
	20×(1/2)"	60
	20×(3/4)"	40
	25×(1/2)"	40
	25×(3/4)"	40
	32×(3/4)"	40
	32×1"	20

Male Elbow	Specification	Package (Pcs/Ctn)
	16×(1/2)"	60
	20×(1/2)"	60
	20×(3/4)"	40
	25×(1/2)"	40
	25×(3/4)"	40
	32×(3/4)"	40
	32×1"	16