



# HI-TECH OXY PLUS CATALOGUE



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**Discover once again the high efficiency and the comfort with 25 years of knowledge, technology and engineering power of Dizayn Group.**

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## GENERAL SPECIFICATIONS



### Registered Quality!

- Our Firm has MEYER ISO 9001:2008, DVGW (Germany), Hygiene Institute (Germany), GOST-R (Russia), IMA (Germany), GOST-R (Ukraine), NSF (USA) certificates.
- For these certificates authorized persons come to our firm and grant approval to our facility and laboratories.
- They test the products for one year and then document 50-years warranty. Hence forwards in every three months products are tested; if the result does not satisfy, the document is cancelled.
- The required samples for tests are supplied by the related laboratory from the market. The aim of that is to control the product put up for sale.

### The Distinction of HI-TECH Oxy Plus!

- HI-TECH Oxy Plus Combi Pipe is a patented product of Dizayn.
- HI-TECH Oxy Plus Combi Pipe is conformed with the national and international quality standards (TS EN ISO 15874, DIN 8077, DIN 8078).
- With HI-TECH Oxy Plus Combi Pipe, oxygen permeability in central heating system is much more below than the value anticipated by DIN 4726.
- The pressure class of HI-TECH Oxy Plus Combi Pipe is PN 32.

### The benefits of our differences to practitioners

- HI-TECH Oxy Plus Combi Pipe abolishes the process of folio paring named as shaving and minimises the employee cost.
- In the application of HI-TECH Oxy Plus Combi Pipe, it is prevented to be diminished with the ease usage of even the shortest parts in plumbing.
- It is provided that there is not any folio on the surface of welding area in HI-TECH Oxy Plus Combi Pipe. The problems faced in welding are removed after preventing the reach of external diameter size to out of tolerance values due to the shaving.

## GENERAL SPECIFICATIONS

|   | Intake oxygen to the system $N_A$ (mg/day) | Allowed oxygen permeability of DIN 4726 Norm for the System $N_A$ (mg/day) |
|---|--|--|
| HI-TECH Oxy Plus Central Heating Boliler Pipe | 1,79                                       | 2.38   |
|   | 4,91                                       | 2.38   |

Table 1: Values of oxygen permeability in heating plumbing

## Welding is now easier with HI-TECH series!

- HI-TECH fittings are inserted into screw plate more gently and easily (Compared to your old experience, you will feel that the fitting is inserted into the screw plate more easily).
- HI-TECH fittings prevent the extra material from narrowing the water path while melting process as they enter the screw plate easily.
- The fact that HI-TECH fittings enter the screw plate quickly and easily ensure correct adjustment of the welding size and homogeneous heating. For fittings that do not enter the welding screw plate smoothly, the welding size cannot be set and it falls short, the mechanical features of the materials exposed to excessive heat get weaker.
- Heat transfer is spread not only on surfaces but also along the wall thickness when PPR pipes and fittings are heated for a long time on the welding screw plate. The parts other than the heated surfaces must remain cold so that the required pressure is achieved and ideal welding and connecting is carried out. Heating time for HI-TECH PPR pipes and fittings is short in accordance with ideal welding and connection.
- HI-TECH fittings save time and labour in welding processes as they enter the plate easily.
- High quality molecular association is achieved in the welding processes carried out using HI-TECH fittings.

Important Note: Sizes of PPR pipes and fittings cannot be subjected to measurement control by inserting pipes and fittings into the screw plate while the plate is cold (based on easy or difficult penetration). Pipes and fittings can be subjected to penetration control when the welding screw plate is 260 °C.

## WELDING METHOD FOR HI-TECH OXY PLUS COMBI PIPES

1



Check whether the welding machine is heated up to 260 °C, the thermo went off and the screw plate is clean.

2



Cut the HI-TECH Oxy Plus Combi Pipe vertical to its axis using pipe scissors.

3



Place HI-TECH Oxy Plus Combi Pipe inside face smoothing apparatus. Do not forget that cutting face vertical to the axis is not always possible with scissors. Cutting face horizontal causes problems during the welding process. Face smoothing apparatus is an elegant, well-designed engineering product that solves this problem. Face smoothing apparatus should certainly be used.

## WELDING METHOD FOR HI-TECH OXY PLUS COMBI PIPES

4



Smoothen the face using the face smoothing apparatus and make sure that a channel is opened in the part covered with folio. The face should be smoothed until the whole face surface touches the bottom of the face smoothing apparatus. Dizayn Group does not guarantee any installations made without using face smoothing apparatus.

5



HI-TECH Oxy Plus Combi Pipe hose face has been smoothed.

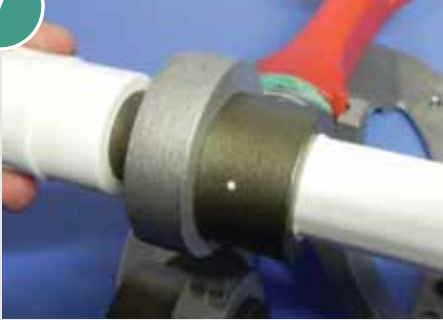
6



Push the HI-TECH Oxy Plus Combi Pipe and its fitting vertically towards the special welding screw plate at the same time. The special welding screw plate was designed to prevent possible mistakes by installation workers.

## WELDING METHOD FOR HI-TECH OXY PLUS COMBI PIPES

7



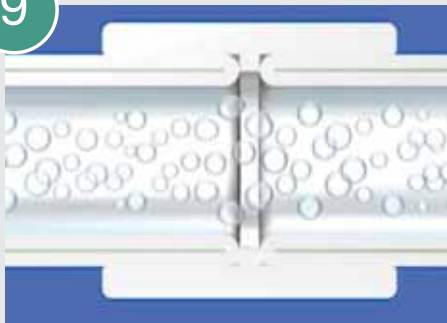
After you see that the melted material comes through the holes on the special welding screw plate, remove the pipe and its fitting from the screw plate (when you look at the face removed from the screw plate, you will see that the aluminum folio in the middle is inside the plastic) Special welding screw plate should certainly be used while welding HI-TECH Oxy Plus Combi Pipes.

8



Our company guarantees installations made connecting Dizayn pipes with Dizayn fittings and complying with the defined rules.

9



Our company guarantees installations made connecting Dizayn pipes with Dizayn fittings and complying with the defined rules.

### Important Note:

Screw plates used for welding should comply with DVS2208-1



## SUPERIORITIES

1



### **Dizayn HI-TECH Oxy Plus Combi Pipe does not Allow the Passage of Oxygen**

Since the inner part entering the fitting of HI-TECH Oxy Plus Combi Pipe is foiled, the level of oxygen transmission is below the level 0,1 g / m<sup>3</sup>xday as anticipated by DIN 4726 standards.

2



### **Dizayn HI-TECH Oxy Plus Combi Pipe does not Need to be Shaved**

With its unique technology, Dizayn HI-TECH Oxy Plus Combi Pipe, in which aluminium folio is put in the centre of wall thickness removes the process of folio paring named as shaving. After the pipe is cut, with a simple face smoothing process the pipe will be wholly ready for welding.

3



### **Dizayn HI-TECH Oxy Plus Combi Pipe does not Diminish**

Since even the shortest parts are used easily in the practices of HI-TECH Oxy Plus Combi Pipe, it does not diminish.

4



### **Dizayn HI-TECH Oxy Plus Combi Pipe is Aesthetic**

HI-TECH Oxy Plus Combi Pipe and fittings are produced in white. Since in other products available folio is near to the surface, the apparent colour is grey. Since this greyish colour does not comply with the colour of fittings, there is not any more aesthetic colour.



## SUPERIORITIES

5



### Dizayn HI-TECH Oxy Plus Combi Pipe Shows Resistance Against Elongation

Since the aluminium folio is at the centre of HI-TECH Oxy Plus Combi Pipe, there are equal layers on both sides of the folio and both layers show equal resistance against elongation.

6



### With Dizayn HI-TECH Oxy Plus Combi Pipe Minimum Time and Maximum Work

With its technology which centres aluminium folio, Dizayn HI-TECH Oxy Plus Combi Pipe does not need shaving. Plumber uses face smoothing device and with a quick pipe face smoothing practice he prepares the pipe for welding without any great efforts and loss of time. So that the time of labour decreases in half and plumbing can be established with fewer employees and in less time.

7

### Pressure Resistance with Dizayn HI-TECH Oxy Plus Combi Pipe is 32 bars/50 Years

One more quality is added to HI-TECH Oxy Plus Combi Pipe, which is equipped with great specifications. Aluminium folio at the centre of the pipe is welded continuous, it is hereby provided that it contributes to the pressure resistance of the pipe. Pressure resistance of the pipes which changes radically with the temperature will not change and pressure class can be increased to 32 bars.

8

### 1 Day is 48 Hours with Dizayn HI-TECH Oxy Plus Combi Pipe

It is the right time to forget everything about plumbing! HI-TECH Oxy Plus Combi Pipe our craftsmen will be able to weld double than with the available products under normal conditions in a day. We know that time is so important for our plumbers. With HI-TECH Oxy Plus Combi Pipe, you are forefront of everyone thanks to savings in heating time. For plumbers using HI-TECH Oxy Plus Combi Pipe one day is 48 hours from now on.



## SUPERIORITIES

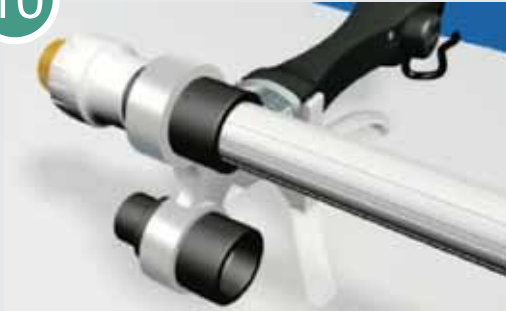
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### Thanks to Dizayn HI-TECH Oxy Plus Combi Pipe No More Cracking Pipes

It is inevitable for PPR pipes to be cracked due to the impact in cold weather. HI-TECH Oxy Plus Combi Pipe absorbs impact force, provides 30% more impact endurance than the regular pipes via its design.

10



### Welding is More Clear Thanks to Dizayn HI-TECH Oxy Plus Combi Pipe


With HI-TECH Oxy Plus Combi Pipe there is not any more nasty scene of plastic waste which welding tool causes during melting process. That nasty appearance of waste material in the fitting area of pipe and fitting is not wished. Material melted with special design of HI-TECH Oxy Plus Combi Pipe does not shed out of screw plate, squeezes between the pipe and spare part and long living welding is acquired.

11

### Perfect Trowel Coating Compliance with Dizayn HI-TECH Oxy Plus Combi Pipe

Thanks to the exterior surface with knurled geometry of HI-TECH Oxy Plus Combi Pipe it is provided that pipe forms a wholeness with trowel coating. Therefore the risk of pipe's moving in the trowel coating is avoided. Also, with that knurled surface junction easiness is enabled and plumber can easily hold the pipe.





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