



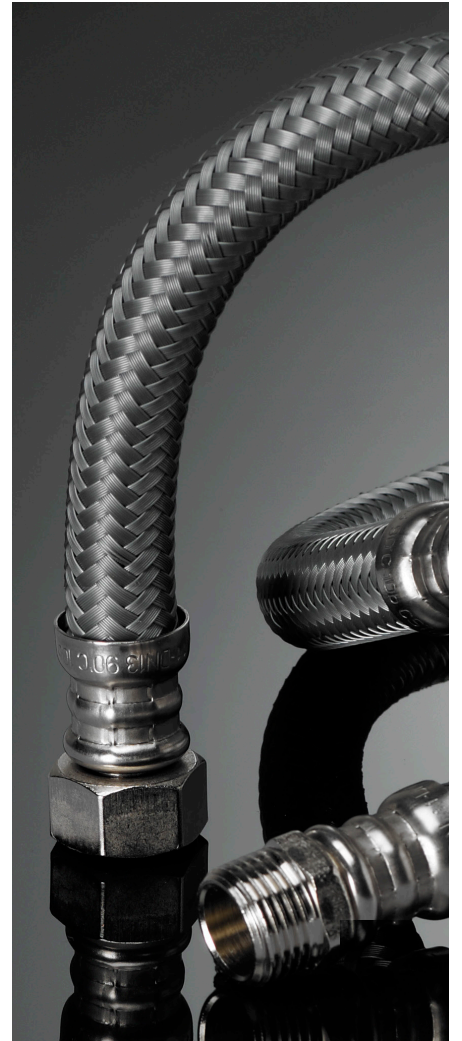
NEWSLETTER

MARCH 2015

DO YOU KNOW
**THE NEW
GENERATION**
OF FLEXIBLE
CONNECTORS?

**CHECK OUT OUR
LATEST FEATURED
DEVELOPMENTS AT**

**ISH'15
FRANKFURT**



TUCAI S.A

C/ Llobateras, 10-12 | Polígono Industrial Santiga
08210 Barberà del Vallès (Barcelona) Spain
Tel: +34 93 718 95 62 | Fax: +34 93 718 82 55

www.tucai.com

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TUCAI announces the opening of its new branch office in Kaiping.



This new Branch Office is evidence of TUCAI commitment to actively deliver business services to new and existing customers in the South of China for many years to come.

With this step, the new motivated team can further improve the already reputable services in China in order to serve the steadily growing market, added Jaume Farell, Managing Director of Ningbo TUCAI Flexible Pipe Co. Ltd.

The inauguration ceremony was attended and presided by senior officials of the Company, local customers and well-wishers.

This new location will also serve as a training Center for our Customers and Partners from this region.

Effective immediately, all sales and support activities for South china will be concentrated in this new location. The new office can be contacted under the following new address:

192 North Xinshi Rd,
Shuikou Town, Kaiping
Guangdong province, 529321, PR China
Phone: + 86 750 2707 588
Fax: + 86 750 2702 577
sales.nt@tucai.com.cn
www.tucai.com.cn



Concerning the regulations on the quality of water intended for human consumption.

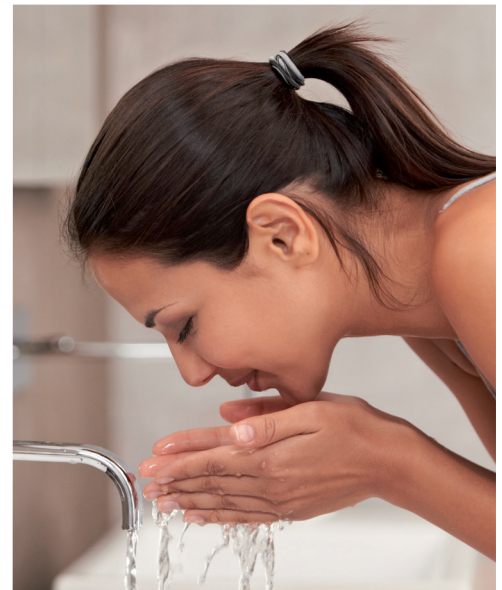
European Community Directive 98/83 as it relates to flexible hose assemblies

The European Union is aware of the great importance and influence which the use of suitable materials in contact with water has on public health. For this reason, it has been working since the 1990s to determine which materials can be used to distribute drinking water. This culminated in the drafting of the European regulations on the quality of water intended for human consumption, Directive 98/83/EC.

This directive sets the maximum limits for non-organic materials in water. To cite a number of the parameter limits, we believe it is important to stress that the maximum content of lead and nickel permissible in European drinking water is 10 µg/l and 20 µg/l, respectively.

The limits set for certain materials in water must of course be taken into account by manufacturers when designing their products in order to minimise migrations. In the case of the manufacture and development of accessories for the conveyance of water, several related empirical studies have demonstrated and explained that certain grades of brass, primarily those made from copper, zinc and lead alloys, produce migrations of said metals into the water, in violation of the European directive and affecting the potability of the water.

PARAMETER	PARAMETRIC VALUE	UNIT	NOTES
Acryl	0,10	µg/l	Note 1
Antimony	5,0	µg/l	
Arsenic	10	µg/l	
Benzene	1,0	µg/l	
Benzo(a)pyrene	0,010	µg/l	
Boron	1,0		
Bromate	10	µg/l	Note2
Cadmium	5,0	µg/l	
Chromium	50	µg/l	
Copper	2,0		
Cyanide	50	µg/l	
1.2-dichlorethane	3,0	µg/l	Note3
Epichlorohydrin	0,10	µg/l	
Fluoride	1,5		
Lead	10	µg/l	Notes 3 and 4
Mercury	1,0	µg/l	
Nickel	20	µg/l	Note 3
Nitrate	50		Note 5
Nitrite	0,50		Note 5
Pesticides	0,10	µg/l	Notes 6 and 7
Pesticides - Total	0,50	µg/l	Notes 6 and 8
Polycyclic aromatic hydrocarbons	0,10	µg/l	Sum of concentrations of specified compounds. Note 9
Selenium	10	µg/l	
Tetrachloroethene and trichloroethene	10	µg/l	Cum of concentrations of specified parameters
Trihalomethanes - Total	100	µg/l	Sum of concentrations of specified compounds. Note 10



L 330/32		EN	Official Journal of the European Communities	5.12.98
COUNCIL DIRECTIVE 98/83/EC				
of 3 November 1998				
on the quality of water intended for human consumption				
THE COUNCIL OF THE EUROPEAN UNION,		leaving Member States free to add other parameters if they see fit;		
Having regard to the Treaty establishing the European Community and, in particular, Article 130(1) thereof,		(3) Whereas, in accordance with the principle of subsidiarity, Community action must support and supplement action by the competent authorities in the Member States;		
Having regard to the proposal from the Commission (1),				
Having regard to the opinion of the Economic and Social Committee (2),		(4) Whereas, in accordance with the principle of subsidiarity, the natural and socio-economic differences between the regions of the Union require that most decisions on monitoring, analysis, and the measures to be taken to redress failures be taken at a local, regional or national level insofar as those differences do not detract from the establishment of the framework of laws, regulations and administrative provisions laid down in this Directive;		
Having regard to the opinion of the Committee of the Regions (3),				
Acting in accordance with the procedure laid down in Article 189 (4),				

Lead and nickel limits permitted by the Procedure for the Acceptance of Metallic Materials intended for Products in contact with drinking water, according to Directive 98/83/EC.

Empirical migration studies have been made to establish the composition of brass that complies with the European directive. The studies concluded that different types of brass must be used, depending on the industrial process followed to manufacture the component (stamping or machining). Therefore, in the case of end fittings, the accepted types of brass are:



The directive also places limits on nickel migrations in water, due to its impact on health. Since the allowed nickel level is very low, further treatment would be required after nickel plating, which would increase the price of the product. Therefore, in order to comply with regulations and keep costs competitive on the different markets, the ideal solution would be to eliminate the nickel plating process for fittings.

In terms of the enforcement of Directive 98/83 on Drinking Water, each Member State is required to transpose the requirements of this directive into their national legislation and to ensure compliance, although the determination of when to apply them is left up to each State, affording them the option to include additional parameters, if deemed appropriate.

Elements for consideration in the migration water:

Pb, Ni, Cu, Zn

3.3 Accepted Alloys

3.3.1

Notation	Product Groups
CW617N*(CwZn40Pb2)	B and C
CW612N*(CwZn39Pb2)	

*Contents of certain elements are further restricted (see below)

Cu	Zn	Pb
57.0% - 60.0%	Remainder	1,6% - 2,2%

Impurities %(m/m)

Al	Fe	Ni	Si	Sn
≤ 0,05%	≤ 0,3%	≤ 0,1%	≤ 0,03%	≤ 0,3%

Each other Impurity ≤ 0,02%

Basis for acceptance

German Co-normative Research Report RG_CPDW_01_074
Dossier John Nutfall (March 2006)

These are the national regulations currently in force:

- Spain (through Royal Decree-Law 140-2003),
- Netherlands (“Regulation on Materials and Chemicals in Drinking Water and Warm Tap Water Supply”, implementing ATA regulations),
- Denmark (Executive Orders No. 31 and 32 of 21 January 2013 and their Amendments No.1259 and 1197, as well as the “Building Regulations”),
- France (Circular DGS/SD 7A No. 2002-571 of 25 November 2002, DGS/EA4 No. 787 of 25 June 2007, DGS/EA4 No. 487 of 2 July 2008, implementing the ACS (Attestation de la Conformité Sanitaire), and
- Germany (UBA Metalle).

In conclusion, we can state that all manufacturers of products in contact with drinking water must redesign and adapt their products to include materials that comply with Directive 98/83/EC. The fact that different EU countries may transpose the Directive into their national regulations at different times shall result in a transitional period during which different materials may coexist in different EU countries. We trust that this period will be as short as possible, in order to prevent confusion on the market.



Anti Corrosion Anti Bacterial Flexible Connector

The TAQ FLX ACB range has been designed to guarantee a longer lifespan in extreme conditions and the total respect of the consumer health.

Chlorine and Chloramine Resistance

FLX is the best option when it comes to chlorine and chloramine resistance.

This new generation of highly engineered polymer has been developed to perform well and resist the degrading effects of today's potable water industry that uses disinfectants like chlorine or chloramine to kill bacteria.

Chlorine and Chloramine do not generate surface flaking, dimpling nor shedding of the inliner material.

Antibacterial Properties

The extreme flexibility of the inliner together with its antibacterial properties, the total absence of plasticizers in the extrusion process that avoids the migration of substances into water all grant this innovative product full compliance with the sanitary regulations of most EU members.

Corrosion Resistance

Connectors installed in corrosive environments or exposed to household cleaners and chemicals can deteriorate, possibly resulting in damage.

TUCAI products are built to last; they all exceed standard performance requirements, and therefore, durability. Stainless steel seems to be the best option for corrosion resistance, but some applications may need more.

The new Anti Corrosion braiding developed by our engineers guarantees a longer lifespan, even in harsh and corrosive atmosphere.

The new Generation of Flexible Connectors



METALS covered by the Drinking Water Directive (DWD)

To ensure a satisfactory water quality at the consumer's tap, it is important to set the limits of chemical substance migration into the water and choose carefully the materials used for the production of pipes and flexible connectors.

Metallic materials cannot release dangerous substances into drinking water.

Drinking Water Directive (DWD) and each national legislation fix the limits of impurities accepted in metals in contact with water. For copper alloys, there are two main restrictions: maximum accepted migrations of 10µg/lit. for lead, and maximum of 20µg/lit. for nickel, both of them measured for long-time migration period.

Copper alloys complying those limits are CW617N, CW612N, and others where the content of lead does not exceed 2,2% in weight in the alloy, corresponding to "fittings" category of products.

Remove nickel plating from metallic parts in contact with water is needed to comply to these limits and has become a recommendation for several Approval Bodies.





THE ALTERNATIVE TO SILICONE

The TAQ FLX range of braided connectors covering DN6 through DN25 is unmatched in the market place in terms of flexibility and competitiveness.

The best combination ever in the field of flexible connectors for Sanitary, Plumbing and Heating applications!

TAQ FLX combines unique hygienic features together with flexibility in large diameters at a very competitive price.

The full range is designed to withstand the mechanical performance tests according to W543 and to comply with the highest hygienic requirements to KTW-A and W270.



KTW-A

W270

kiwa

WRAS



Technical Information

NOMINAL HOSE DIAMETER	DN6	DN8	DN10	DN13	DN18	DN20	DN25
W270 - KTW A	✓	✓	✓	✓	✓	✓	✓
W543 - DVGW	✓	✓	✓	✓	✓	✓	✓
Inner Diameter in mm.	6,5	8	10	13	18	20	25
Outer Diameter in mm.	10	11,5	14	17	24	28	33
Working pressure in bar	10	10	10	10	10	10	10
Flow rate in L/min. at 3 bar	16	29	45	70	120	145	200
Maximum temperature	90°C	90°C	90°C	90°C	90°C	90°C	90°C
Inner hose material	TPE	TPE	TPE	TPE	TPE	TPE	TPE
Braiding	AISI 304 Stainless steel	AISI 304 Stainless steel	AISI 304 Stainless steel	AISI 304 Stainless steel	AISI 304 Stainless steel	AISI 304 Stainless steel	AISI 304 Stainless steel
Sleeves	AISI 304 Stainless steel	AISI 304 Stainless steel	AISI 304 Stainless steel	AISI 304 Stainless steel	AISI 304 Stainless steel	AISI 304 Stainless steel	AISI 304 Stainless steel
CONNECTIONS							
Nickel-plated Female fitting	✓	✓	✓	✓	✗	✗	✗
Nickel-plated Nipple	✗	✗	✗	✗	✗	✗	✗
Nickel-plated Male fitting	✗	✗	✗	✗	✗	✗	✗

Female fitting



Male fitting



Compression fitting



Smooth tube



Elbow fitting



Additional fittings upon request



New Kitchen Pull-Out Polymer Braided connectors

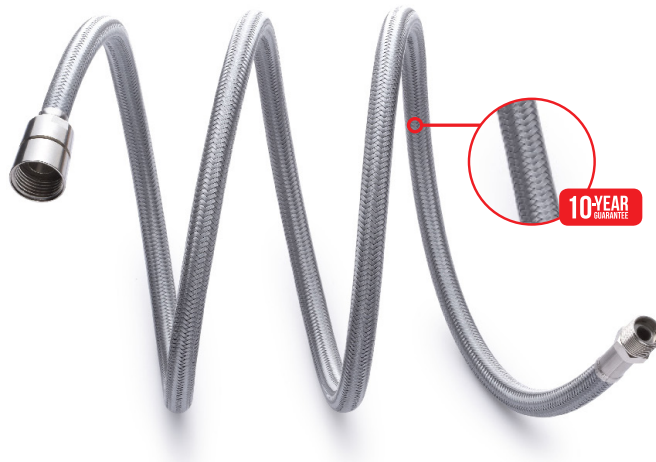
The most flexible poly-braided hose featured with a strong corrugated inner hose covered with tightly braided polyester fibers is engineered to ensure a secure connection to your faucet. The result is a kink-free hose with a guaranteed flow rate for optimal faucet performance.



TUCAI PULL OUT TWIST connector is built to last even under the harshest conditions when exposed to common household cleaners and chemicals



 **KTW-A** **W270**  and **WRAS** approved.



TUCAI S.A

C/ Llobateras, 10-12 | Polígono Industrial Santiga | 08210 Barberà del Vallès (Barcelona) Spain
Tel: +34 93 718 95 62 | Fax: +34 93 718 82 55 | www.tucaicom.com

NINGBO TUCAI FLEXIBLE PIPE CO., LTD
No.1 Beixing Road, Mazhu Town Yuyao, Zhejiang, 315450, (China)
Tel. +86 574 6248 0933
Fax. +86 574 6248 1987
Email. info.nt@tucai.com

SHANGHAI BRANCH
Unit1904, Nanzheng Building, 580 West Nanjing Rd, Shanghai, 200041, PR China
Tel. +86 21 5211 0098
Fax. +86 21 5211 0006
Email. sales.nt@tucai.com.cn

KAIPING BRANCH
192 North Xinshi Rd, Shuikou Town, Kaiping Guangdong province, 529321, PR China
Phone: +86 750 2707 588
Fax: +86 750 2702 577
sales.nt@tucai.com.cn

TUCAI BULGARIA spLtd
7538 Aydemir Village, 39 Chernozem street, Silistra Region (Bulgaria)
Tel. +00 35 986 752 008
Fax. +00 35 986 752 042