

前言

在飲用水系統。我們關心的不僅是消費者的安全,也是為了能確保產品在飲用水系統中低故障率以及較長的使用壽命。飲用水系統中,閥門、流量計、泵和其他設備中通常包含橡膠墊圈、襯里和隔膜。而這些組件能性都至關重要,因此您需要一個高品質的飲用水級橡膠產品去維持系統運行。

您需要知道的世界各國飲用水法規重要性

首先要進入歐美等世界各國的與飲用水接觸部件與材料市場,就必須經過該國家級別認證前提,於銷售地點(國家/地區)去進行認證取得證書獲得銷售批准,其中包括美國NSF、英國WRAS、法國ACS以及全球其他管理機構製定的標準。在美國與歐洲各國,每個政府都有義務進行適當的監管和質量控制,以確保飲用水質量。目前各國家對與飲用水接觸的材料的規範需求各不相同,因此您必須針對銷售的地點進行個別認證與開發需求。

飲用水法規	國家	簡介	¦ ¦ 適用範圍 !	標準
NSF61	USA	NSF/ANSI/CAN 61 認證可確保您的產品 符合美國和加拿大的法規要求。	Joining and sealing materials (gaskets, adhesives, lubricants)	NSF/ANSI 61
WRAS	UK	 由英國水務中心治理和頒發的飲用水安全 方面的認證。 	plastics in contact with drinking water	BS 6920 BS 2494
KTW & W270	DE	KTW – W270 認證與飲用水接觸的產品須 經過 UBA(德國聯邦德國聯邦)指定實驗	plastics in drinking water, cold, warm, and hot water	UBA Guideline(elastomer) KTW-BWGL
		室的測試和認可。	drinking water	DVGW worksheet W270
ACS	FR	在法國,任何與飲用水接觸的設備或配件 意味著人類消費必須通過 ACS 或衛生符合性認證。	plastics in contact with drinking water	AFNOR XP P41-250 Part 1-3







擁有超過20年用於食品和飲用水應用的密封組件的設計和製造經驗,長泓可以為您提供相關應用和符合全球法規的正確材料的使用建議,且已成功開發出一系列用於飲用水應用的新型橡膠化合物。

- 本公司設有飲用水與食品級的混練膠獨立生產線
- 長期供應歐洲、美洲、亞洲客戶,並得到廣泛客戶肯定
- 本公司突破各個國家規範和技術困難。提供了同時符合各國飲用水法規的產品,讓使用者能依據 各自需求進行選擇

飲用水產品應用解決方案

您可以為您的產品因應不同的銷售地區選擇適當的產品如

	EP01961 PWRC	EP02971 PWRC	EP05280 PWRC	EP01873 WRC	NB07973 WRC	NB01280 PWRC	NB03973 PWRC
NSF61	•		•	•	•	 	•
WRAS	•	•	•	1 	 	•	
KTW	•	•	 	 	 	 	•
ACS	•	•	1 1	 	 	I I	
Rubber type	EPDM	EPDM	EPDM	EPDM	NBR	NBR	NBR
Curing system	Peroxide	Peroxide	Peroxide	Sulfur	Sulfur	Peroxide	Peroxide
Hardness (shore A)	60	70	80	70	70	80	70
Tensile	>10 MPa	>12.5 MPa	13.5 MPa	11 MPa	16 MPa	18 MPa	18.5 MPa
Elongation (min)	300%	150%	120%	250%	500%	120%	300%
Compression set	Excellent	Excellent	Excellent	Good	Good	Excellent	Excellent
Service Temperature	-40-120 °C	-40-120 °C	-40-120 °C	-40-100 °C	-20-100 °C	-20-100 °C	-20-100 °C
Color	Black	Black	Black	Black	Black	Black	Black

^{*}本數據為本公司以受TAF認證之實驗室測試之試片扣標準結果,數據會因為固化成形條件與測試方式等外在條件影響,若有疑問請聯繫本公司技術人員 為您服務

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Foreword

When talking about a drinking water system, what we are concerned about is not only the safety of the consumers but also the low failure rate and long service life of the products in the system. The valves, flowmeters, pumps, and other devices in the drinking water system usually contain rubber gaskets, liners, and membranes. Since these components are critical, you need quality drinking-water-grade rubber products to maintain the operation of the system.

The important drinking water regulations in the world that you need to know

First of all, you need to pass the national certification of respective countries if you plan to enter the markets in Europe and the USA with your parts and materials to be used in contact with drinking water. Certification and acquisition of a certificate and approval at the selling location (country/region) are required for the sale. The certification standards include NSF (the USA), WRAS (UK), ACS (France), and other standards formulated by other regulators in the world.

In the USA and other countries in Europe, every government is obligated to perform appropriate regulation and control to ensure the quality of drinking water. The regulations governing the materials in contact with drinking water are varied in different countries. Hence, you may have different certification and development requirements depending on the selling locations.

Drinking Water Regulation	Country	Description	Scope of Applicability	Standard
NSF61	USA	NSF/ANSI/CAN 61 certification can ensure your products meet the legal requirements of the USA and Canada.	Joining and sealing materials (gaskets, adhesives, lubricants)	NSF/ANSI 61
WRAS	UK	This is the certification of drinking water safety governed and issued by the Water Research Centre (WRC), UK.	plastics in contact with drinking water	BS 6920 BS 2494
KTW & W270	DE	KTW – W270 certification requires that the products in contact with drinking water be tested and approved by the labs	plastics in drinking water, cold, warm, and hot water	UBA Guideline(elastomer) KTW-BWGL
		designated by UBA (Umweltbundesamt).	drinking water	DVGW worksheet W270
ACS	FR	In France, any devices or accessories in contact with drinking water are involved in human consumption and must pass the ACS or hygiene compliance certification.	plastics in contact with drinking water	AFNOR XP P41-250 Part 1-3





CHR Elastomers for drinking water



Selection of the Rubber Compound Supplier That You Can Trust

CHR has experience in the design and manufacture of seal components in contact with food and drinking water for more than 20 years. We can provide you with recommendations on the applications and the materials that meet the laws and regulations of countries worldwide. CHR has successfully developed a series of new rubber compounds in drinking water applications.

- CHR has dedicated production lines of drinking water and food-grade rubber compounds.
- CHR supplies products to customers in Europe, America and Asia on a long-term basis, and is highly recognized by them.
- We break through the difficulties in the techniques and the legal regulations of different countries. In addition to offering products that meet the drinking water regulations of different countries, we enable the users to select the specifications to meet their special requirements.

Solutions for Drinking Water Product Applications

You can select the products most suitable for your applications in different selling locations, such as

	EP01961 PWRC	EP02971 PWRC	EP05280 PWRC	EP01873 WRC	NB07973 WRC	NB01280 PWRC	NB03973 PWRC
NSF61	•	•	•	•	•	 	•
WRAS	•	•	•	1 	r 1 1	•	
KTW	•	•	 	 	 	 	•
ACS		•	 	 	 	 	
Rubber type	EPDM	EPDM	EPDM	EPDM	NBR	NBR	NBR
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^{*}The data in the table are based on the test result of the TAF accredited lab conducting the test of the samples pursuant to relevant standards. They are affected by external factors such as solidification conditions and test methods. If you have any questions, please contact CHR technicians and they will provide services for you.

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