



*Sealing Compounds for  
Plumbing,  
Heating and Supply  
Technology*

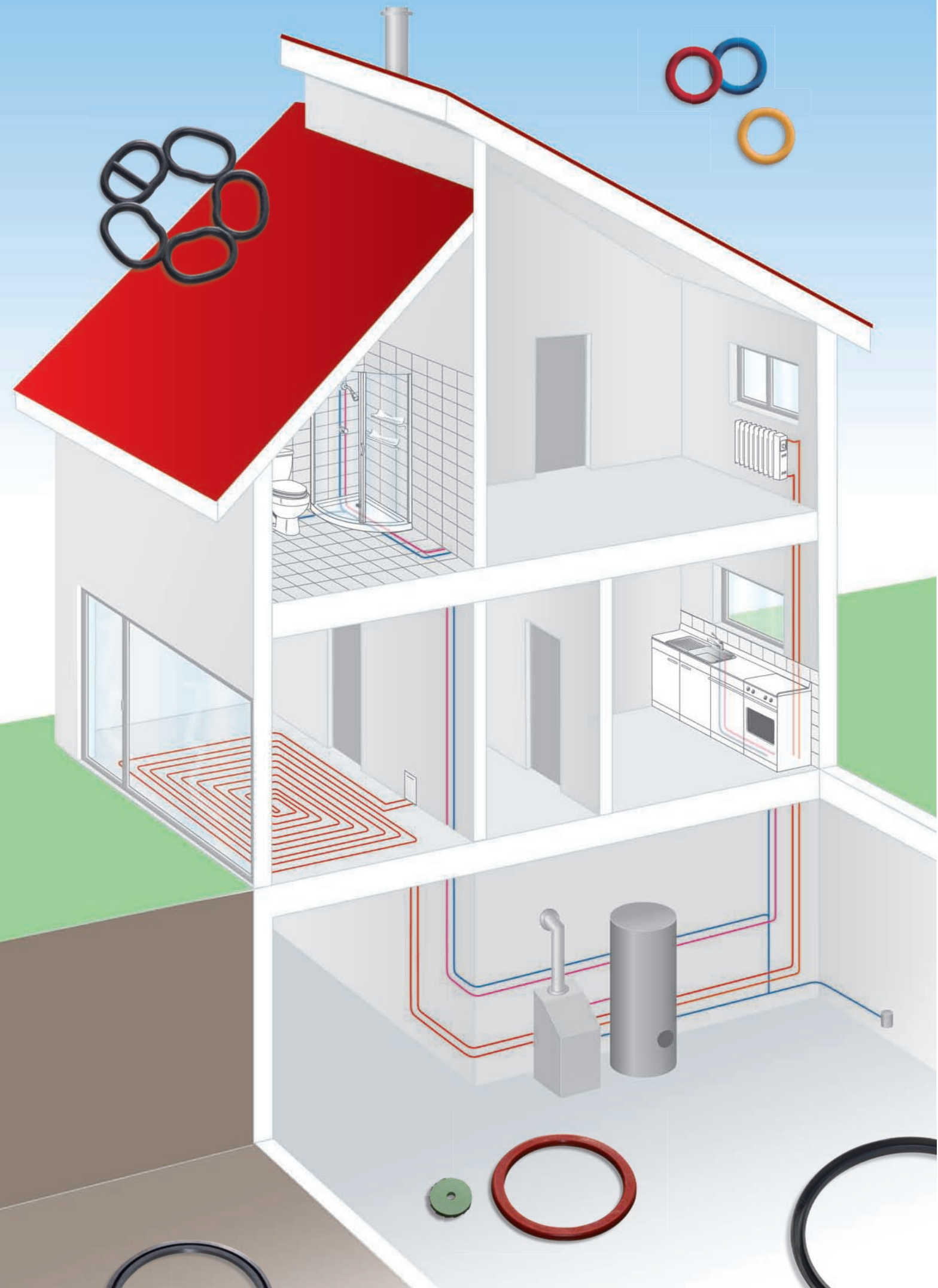


# Low-friction assembly with ParCoat® KTW

O-rings with ParCoat® coatings allow low-friction, low-force installation using automatic assembly equipment. Unlike surfaces treated with oils or greases, seals with a ParCoat® finish do not contaminate the conveyors and feeders of automatic assembly lines. The rings do not stick together, are protected from damage and can be elongated up to 150 % without the transparent anti-friction coating breaking or tearing. The installation process can be repeated several times with the same assembly forces.

ParCoat® KTW has been awarded both KTW and WRAS approval. Since the coating is transparent the colours of the elastomers are visible, thus preventing mix-ups. Temperature resistance ranges from  $-40$  to  $+120$  °C ( $-40$  to  $+250$  °F).







# Sealing compounds for drinking water, heating and gas applications

Sealing compounds for use in drinking water, heating and gas applications are subject to a wide range of approval regulations. These regulations serve to assure the safety of water from the time of intake, via treatment, processing and transportation through to consumption. Practically every country in the world has its own drinking water regulations specifying particular tests and including lists of approved ingredients. These regulations are complemented by physical and microbiological examinations.

The Parker Seal Group has developed a number of compounds, each of which meets a wide range of the required approvals, thus allowing the global utilisation of the sealing systems:

The peroxide cross-linked, plasticiser-free EPDM compounds E8790-70 and E8780-80 were developed specifically for use with **drinking water**. Both compounds meet the requirements of EN681-1 including the supplementary requirement, W534. Their low compression set guarantees long service life and thus reliable sealing of all fittings, valves and pipe systems.

Because of their good gas and water resistance N3829-70 and N8662-70 are the specialists for use with **gas condensing technology**.

Parker-Compound	E1244	E1257	E1549	E1561
Hardness (Shore A)	70	70	70	60
Special Characteristics	1* / 2*	2*	2*	2*

Regulation/Directive	Country/Region	Scope of Application	Standard	EPDM	EPDM	EPDM	EPDM
KTW	D	Plastics in drinking water, cold, warm and hot water	BfR directives: Plastics in food distribution, part 1.3.13			• 90 °C 194 °F	• 85 °C 184 °F
W 270	D	Drinking water	DVGW worksheet W270: Multiplication of microorganisms on materials for drinking water applications				
ACS	F	Plastics in contact with drinking water	French drinking water application AFNOR XP P41-250 part 1-3				
WRAS	GB	Plastics in contact with drinking water	British Standard BS 6920 and BS2494			• 85 °C 184 °F	• 85 °C 184 °F
KIWA	NL	Rubber pipe joint seals for potable water and waste water	BRL-2013-04, cold and hot water; ATA Product Certification (Technical Approval Toxicological Aspects)				
NSF 61	USA	Food and sanitary/plumbing applications	NSF Standards and Criteria (Joining and Sealing Materials)	•	•	•	•
NSF 61	USA	Food and sanitary/plumbing applications	NSF Standards and Criteria (Mechanical Plumbing Devices)			•	•
EN 681-1	Europe	Seals for water supply applications	DVGW: Material requirements for pipeline seals for applications in water supply and drainage				
W 534	D	Pipe/tube connectors and pipe/tube connections in drinking water installations	DVGW: Pipe connectors/fittings and pipe connectors/fittings in drinking water installation (May 2004)				
EN 549	Europe	Seals in gas equipment and systems	EN 549				
VP 614	D	Seals for press fittings (combustion test 650 °C / 30 min)	DVGW: Inseparable pipe/tube connections for metallic gas lines, press fittings				
DIN EN 682	Europe	Seals for gas supply and gas long-distance supply lines	Material requirements for seals in supply lines and assembly components for gas and liquid hydrocarbons				

1\* = Internally Lubed 2\* = Peroxide Cured







# A single compound for gas and water

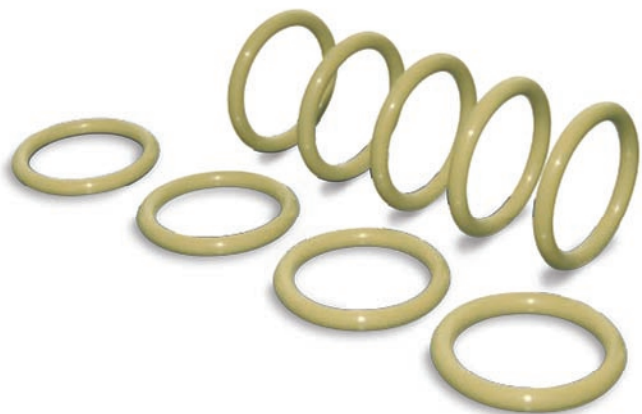
## GW Seal

Parker's GW Seal is suitable for applications in both water and gas. A single o-ring version is now available to seal threaded connections, press fittings and flanges. The resulting benefits for the user: reduction of procurement and storage costs as well as elimination of the risk of mix-ups during assembly.

The newly developed HNBR compound N8888-70 has been tested by the German Association for Gas and Water (DVGW) and confirmed to fully comply to EN 549, Class D2H3, the standard which specifies the requirements and testing procedures for elastomer compounds used in gas equipment and systems. Residual leak tightness in case of fire according to DVGW standard VP614 has been confirmed as well. The yellow colour of the material serves as a clear identifier for gas applications.

O-rings made from N8888-70 are also suitable for use in cold and hot water applications. Conformance of the compound properties to the specifications of EN 681-1 is guaranteed. The compound's suitability regarding the specific requirements established for contact with drinking water has been confirmed by the German drinking water (KTW) approval.

In addition to its superior media resistance, the GW Seal's low compression set makes it ideally suited for permanent and safe sealing of gas and water supply systems.



# **Parker Seal Group**

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