

1400R

Carbon-Reinforced Graphite Packing

High-Temperature, High-Pressure Pump and Valve Packing Solution

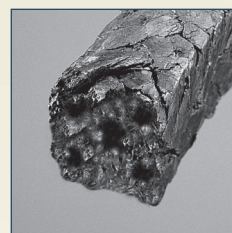
Chesterton® 1400R packing is a unique, reinforced, braided, graphite tape packing with a passive corrosion inhibitor. The carbon yarn provides reinforcement within the graphite tape yarn as well as the braided construction. 1400R packing forms a homogeneous mass under gland pressure, so that leakage is minimized in the packing set. The combination carbon/graphite set withstands higher shaft speeds while seeing limited shaft/stem friction. The structural carbon fiber reinforcement drastically lowers extrusion when 1400R packing sets are installed in valves at higher pressures. In addition to its excellent sealing capabilities in rotating equipment, 1400R packing is a superior alternative for valve sealing material. This multi-purpose design makes it useful in a wide variety of applications.

1400R Key Features

- 1400R packing adds structural carbon fiber reinforcement, for use as anti-extrusion end rings or complete sets in higher pressures
- Creates a homogeneous barrier under gland pressure, so that leakage cannot penetrate the set
- Self-lubricating, to eliminate shaft or stem wear and extend packing life
- Exclusive construction for plant-wide use in all types of pump and valves
- Can reduce pump flush water use

Technical Data

Pressure Limit	275 bar g (4000 psig) valves; 14 bar g (200 psig) pumps
Shaft Speed	20 m/s (4000 fpm)
Temperature Limit	650°C (1200°F) steam; 454°C (850°F) oxidizing atmosphere
Chemical Resistance	pH 0 – 14 except oleum, fuming nitric acid, and aqua regia*



- Excellent choice for high-temperature
- Perfect multi-purpose solution for sealing both rotary or stationary equipment
- Great option for high-speed rotating shafts
- Self-lubricating to reduce shaft or stem wear and extend packing life

*For pressures above 250 bar (3600 psi) contact Chesterton MP Application Engineering.



Power Industry

Pumps:

- Boiler feed
- Condensate
- Hot water circulation
- Heater drain

Sootblowers

Valves:

- Lube oil
- LP steam turbine
- Condensate line valves
- All manually operated valves



Pulp and Paper Industry

- White and green liquor
- High and low density stock
- Refiners
- Agitators and mixers
- Hydropulpers
- High and low pressure feeders
- Power recovery unit steam valves
- Condensate and boiler feed pumps



Refinery and Chemical Plants

All manually operated block valves—easily packed using 1400R with 477-1 end rings.

Wastewater Treatment

Sugar Plants

Marine Services

Size		Packaged ± 10%		Item Number
mm	Inch	kg	lbs	
3.2	1/8	0.908	2	000924
4.7	3/16	0.908	2	000926
6.0	–	0.908	2	000927
6.4	1/4	0.908	2	000937
		2.270	5	000941
8.0	5/16	0.908	2	001054
		2.270	5	001055
9.5	3/8	0.908	2	000943
		2.270	5	000944
		3.175	7	000946
10.0	–	0.908	2	000947
		2.270	5	000949
11.0	7/16	0.908	2	000950
		2.270	5	000952
12.0	–	0.908	2	000953
		2.270	5	000955
12.7	1/2	0.908	2	000956
		2.270	5	000958
		3.175	7	000959

Size		Packaged ± 10%		Item Number
mm	Inch	kg	lbs	
14.0	9/16	2.270	5	001056
		3.175	7	001057
16.0	5/8	3.175	7	001058
17.5	11/16	3.175	7	001059
19.0	3/4	3.175	7	001071
20.5	13/16	3.175	7	001092
22.0	7/8	3.175	7	001093
24.0	15/16	3.175	7	001095
25.4	1	3.175	7	001096

Sales Sample Available (1/2" c/s x 3") – Item Number AWC 001178

c/s = cross-sectional size.

Chesterton ISO certificates available on
chesterton.com/corporate/iso

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