

PFAS REMOVAL CARBON 5000 SERIES

Drinking Water Treatment

WHAT ARE PER- & POLYFLUOROALKYL SUBSTANCES (PFAS)?

Per- and Polyfluoroalkyl Substances (PFAS) are a large group of man-made chemicals, and among them, PFOA and PFOS are the most discussed PFAS. These chemicals are characterized by a chain of carbon atoms bonded to fluorine atoms, which makes them highly resistant to heat, water, and oil. This resistance to breakdown, combined with their strong chemical stability, gives PFAS the nickname "forever chemicals."

These properties have led to their use in products such as non-stick cookware, water-repellent clothing, protective coatings, and firefighting foams. However, the environmental persistence and health implications associated with PFAS exposure have raised significant concerns. Regulatory bodies like the U.S. Environmental Protection Agency (EPA) and the European Food Safety Authority (EFSA) are implementing guidelines to limit PFAS levels in various consumer products, aiming to reduce health risks such as cancer, hormonal disruption, and liver damage.

PFAS are found in all environmental media, including groundwater, soil, sediment, surface water, rainwater, snow, and ice worldwide. Soil contamination can occur from various sources such as aqueous film-forming foams (AFFFs) used in firefighting, wastewater treatment plant effluents, and landfill leachate. PFAS concentrations in soil can range from a few parts per trillion (ppt) to thousands of parts per billion (ppb), depending on the source of pollution.

PRODUCT OFFERINGS

The Haycarb PFAS removal carbon 5000 series is made from specially treated wood and coconut-based materials, offering superior performance for PFAS removal. These products are optimised for PFAS removal due to their excellent adsorptive capacity. Our products have been proven highly effective in removing both PFOA and PFOS, as well as short-chain PFAS compounds. Our solutions target these contaminants with precision, ensuring cleaner and safer results.

We have formulated three products targeting a variety of PFAS (PFOA, PFOS, PFBS, PFPeS, PFHxS, PFHpS, PFHxA, PFHpA,) for specifically low-level contaminants in ppt/ppb levels in drinking water treatment. These products are NSF certified and can be used in Point-of-Entry (POE) and Point-of-Use (POU) filtration systems.

In comparative testing with commonly available bituminous coal, the Haycarb PFAS removal carbon 5000 series has proven its efficacy, effectively removing not only PFOA and PFOS but also extending its capabilities to "short" chain compounds.



FEATURES & BENEFITS

- Produced from high-quality renewable materials, resulting in a consistent and superior product.
- Activated uniformly throughout each granule, ensuring excellent adsorption properties and stable adsorption kinetics.
- Structured to ensure effective wetting and minimize floating materials.
- Maintains consistent adsorption characteristics, maximizing bed life.



RWAO Product Guide

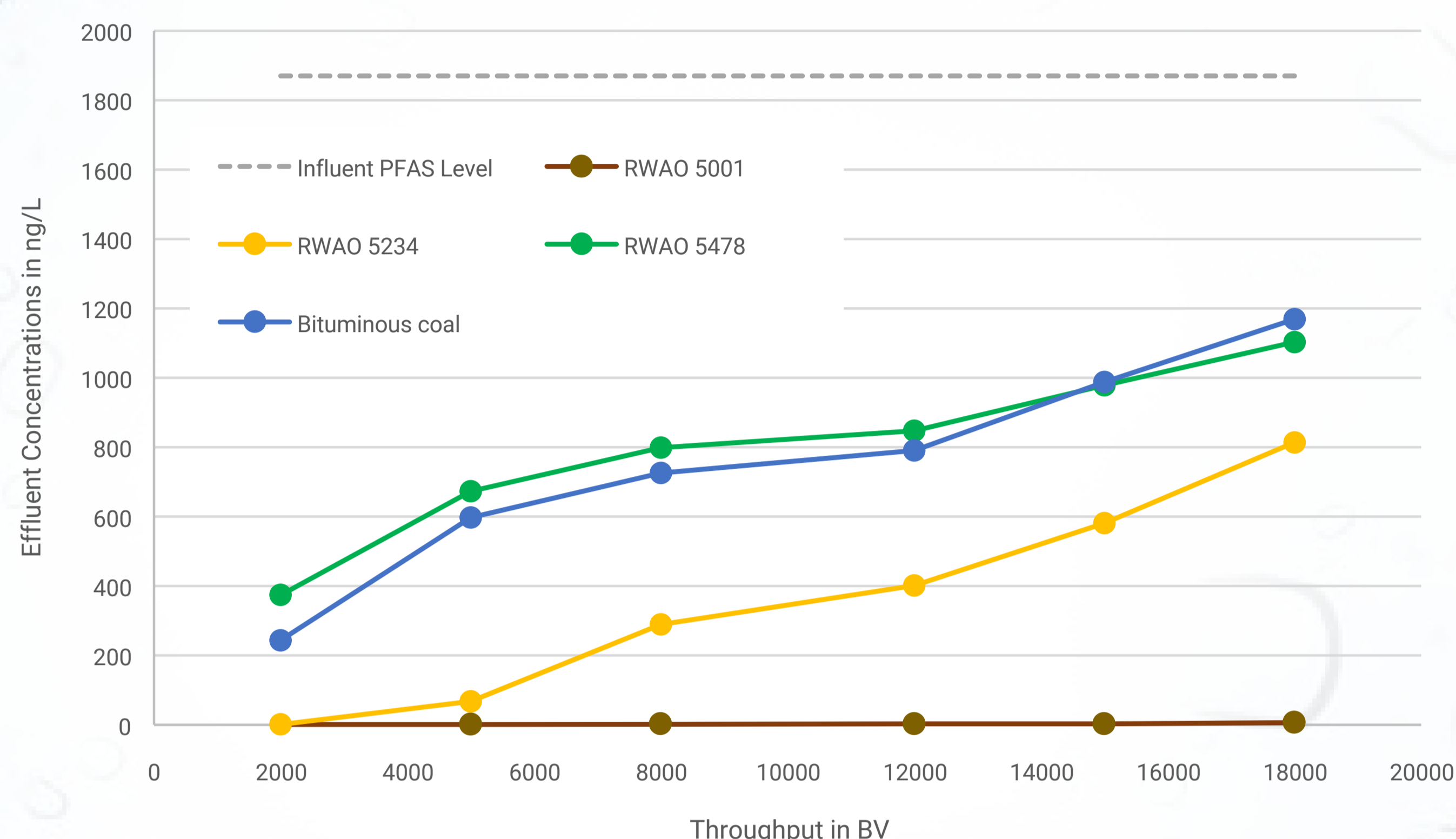
Performance	RWAO 5001	RWAO 5234	RWAO 5478
PFOA, PFOS and PFHxS removal	+++++	++++	+++
Other organic contaminants	+++++	++++	++++

Superior performance +++++ Optimized performance ++++ Enhanced performance +++

Note: Products are available with iodine values ranging from 1000 to 1300. Particle sizes available include 12x40, 20x40, 80x325, M325, etc.

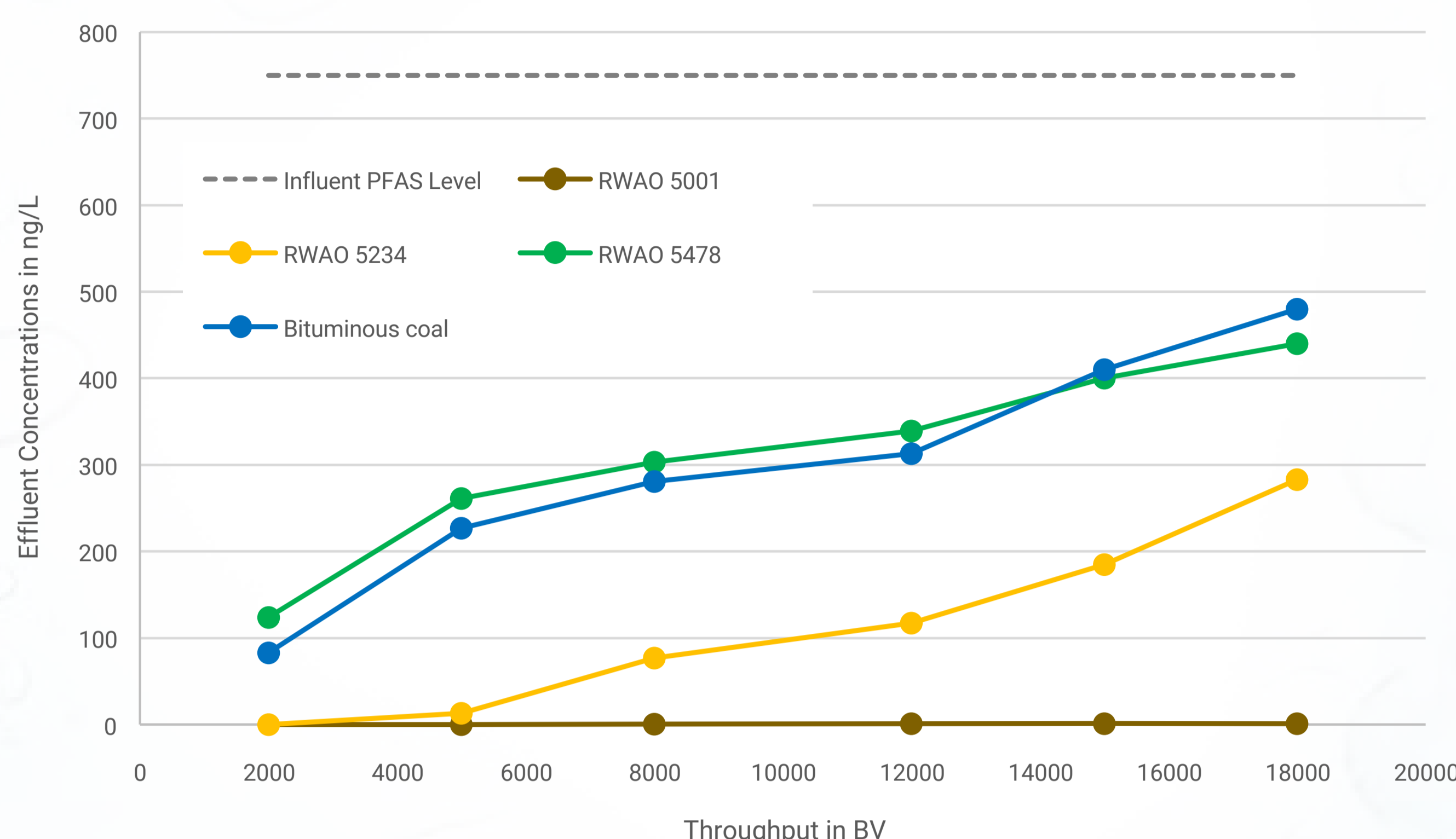
TOTAL PFAS

(PFHxA, PFHpA, PFOA, PFBS, PFPeS, PFHxS, PFHpS, PFOS)
 GAC 12x40 Column : Ø = 5cm, Bed height = 80cm, EBCT = 2.5min, Flow rate = 40L/h, Co = 1870 ng/L



PFAS-3 (PFOA, PFOS, PFHXS)

GAC 12x40 Column: Ø = 5cm, Bed height = 80cm, EBCT = 2.5min, Flow rate = 40L/h, Co = 750 ng/L



*The tests have been performed for the size 12X40

PACKAGING: Standard packaging is primarily designed to prevent the deterioration of accurately graded granules and to prevent the adsorption of moisture or atmospheric contaminants. Other packaging criteria can be accommodated upon request.

BULK BAG
Net. 500 kg

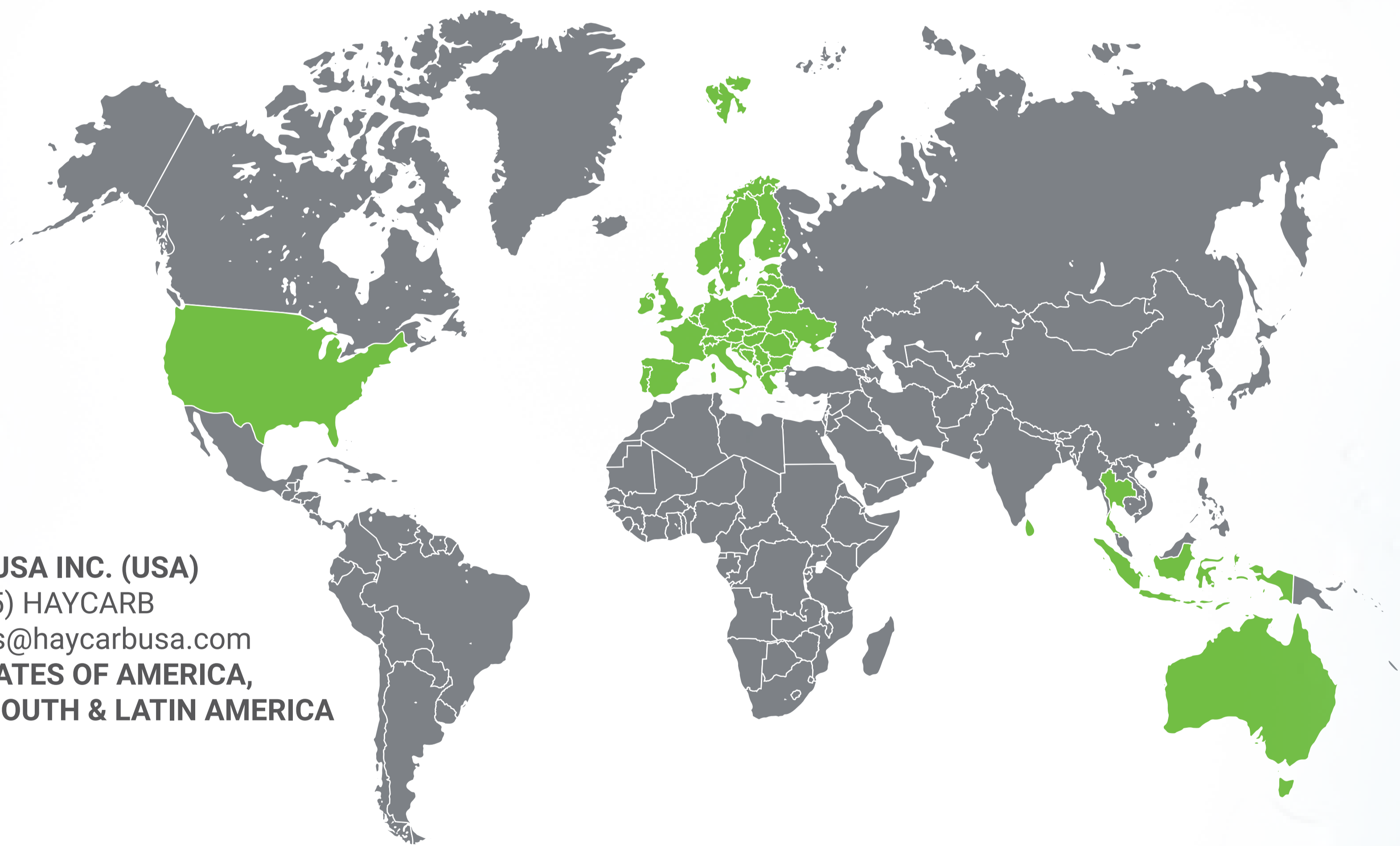
SACKS
Net. 25 kg

PE VALVE BAG
Net. 12.5 kg



'ACTIVATE' Haycarb's ESG Roadmap 2030

CONTACT US



HAYCARB USA INC. (USA)
 Tel: +1 (855) HAYCARB
 Email: sales@haycarb.com
 UNITED STATES OF AMERICA,
 CANADA, SOUTH & LATIN AMERICA

EUROCARB PRODUCTS LIMITED (UK)
 Tel: +44 1179 820333
 Email: info@eurocarb.com
 UNITED KINGDOM AND EUROPE

HAYCARB PLC (SRI LANKA)
 Tel: +94 11 262 7000
 Email: inquiries@haycarb.com
 GLOBAL COVERAGE

HAYCARB HOLDINGS (AUSTRALIA) PTY LTD
 Tel: +61 3 8555 0680
 Email: haycarb@haycarb.com.au
 AUSTRALIA, NEW ZEALAND & PNG

Follow us @haycarbplc



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