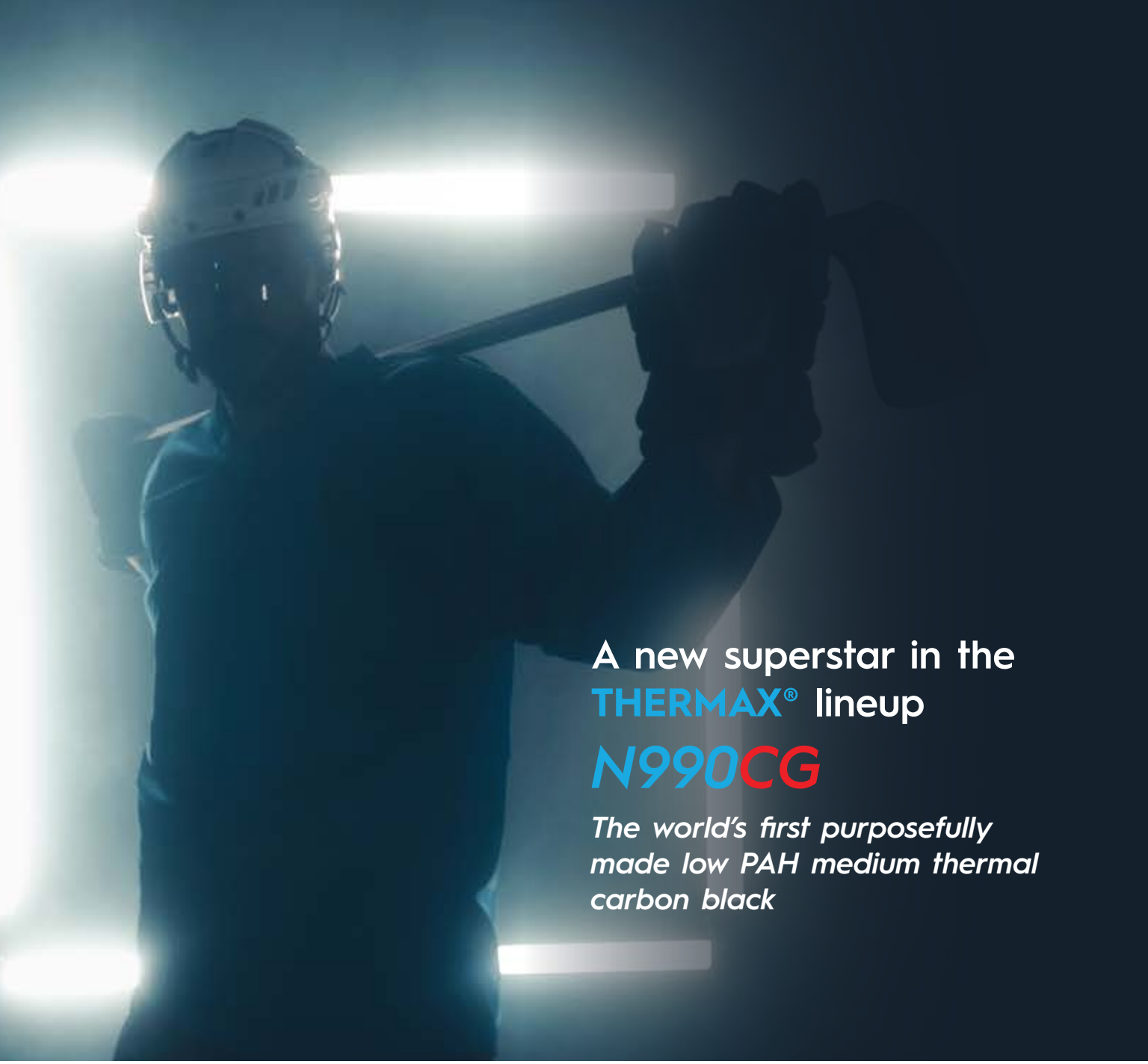

A new superstar in the THERMAX® lineup

N990CG

The world's first purposefully made low PAH medium thermal carbon black

cancarb

TOKAI CARBON GROUP

THERMAX® N990CG MEDIUM THERMAL CARBON BLACK

Targeted at consumer goods, Cancarb's new N990CG thermal carbon black is the first purposefully produced low PAH thermal carbon black on the market. The new N990CG thermal carbon black allows you to minimize PAH content in your application in order to meet the most stringent final product regulatory requirements including EU-8** and GS-15***.

POLYCYCLIC AROMATIC HYDROCARBONS (PAH)

PAH compounds are formed from fused aromatic rings. These compounds are known carcinogens and are created whenever an organic material is partially combusted. The compound most referred to is benzo(a)pyrene (B(a)P) as it is easily identified and acts as a marker for other PAH compounds that might be present.

WHY THE NEED FOR LOW PAH IN CARBON BLACKS?

Specific regulations, guidelines and recommendations such as EU 1272/2013 and AfPS GS 2019:01 PAK are in place and/or in progress in many jurisdictions, including the EU and China, that restrict PAH content in some parts used in consumer articles.

Cancarb is proud to be the first thermal carbon black manufacturer to purposefully create a low Polycyclic Aromatic Hydrocarbon (PAH) medium thermal carbon black targeted at consumer goods.

N990CG medium thermal carbon black gives customers the ability to minimize PAH content in applications without sacrificing the quality and performance synonymous with Thermax. PAH testing is conducted in accordance with ASTM D8143. Generally, PAH regulations apply to final parts and therefore adherence to regulatory requirements will necessitate testing on the finished compounds. This includes regulations or quality certifications such as EU 1272/2013 and Geprüfte Sicherheit (GS) Mark.

MEETS EU 10/2011

- Toluene extractables < 0.1%, determined according to ISO method 6209
- UV absorption of cyclohexane extract at 386 nm: < 0.02 AU for a 1 cm cell or < 0.1 AU for a 5 cm cell, determined according to a generally recognized method of analysis
- Benzo(a)pyrene content < 0.25 ppm

THERMAX® N990CG APPLICATIONS

1) Consumer goods such as:
   a. Sports equipment
   b. Household utensils
   c. Tools for domestic use
   d. Clothing, footwear, gloves, and sportswear
   e. Toys and childcare items

2) Materials intended to be placed in the mouth or materials coming into long-term or short-term skin contact during the intended or foreseeable use

3) Rubber products that come into contact with food and drinking water such as:
   a. Gaskets, O-rings, seals
   b. Belts, hoses
   c. Liners
   d. Wrapping and packaging material

THERMAX® N990CG TYPICAL POLYCYCLIC AROMATIC HYDROCARBON (PAH) CONTENT

Substance	Typical Range (ppm)
Benzo(a)anthracene *	< 0.2
Chrysene *	< 0.2
Benzo(b)fluoranthene *	< 0.2
Benzo(j)fluoranthene *	< 0.2
Benzo(k)fluoranthene *	< 0.2
Benzo(a)pyrene *	< 0.25
Benzo(e)pyrene *	< 0.2
Dibenzo(a,h)anthracene *	< 0.2
Benzo(g,h,i)perylene	< 3
Indeno(1,2,3-cd)pyrene	< 0.5
Phenanthrene	< 0.15
Pyrene	< 1
Anthracene	< 0.1
Fluoranthene	< 0.3
Naphthalene	< 0.1
Total of 8 PAHs (according to PAH-list of (EU) No 1272/2013) *	**< 0.5**
Total of 15 PAHs (according to PAH-list of AfPS GS 2019-01 for GS-Mark certification)	**< 5**

Cancarb is the leader in the development, manufacturing, and global distribution of medium thermal carbon black. From our plant in Medicine Hat, Alberta, Canada, our Thermax® brand carbon blacks are available globally and offer solutions to the rubber industry and more.

For 50 years, with two production units, Cancarb has brought quality and dependability to customers throughout the world. Now with 6 production units, thermal carbon black production from clean natural gas continues to be all that we do. With a constant focus on quality, sustainability, and reliability, we have Thermax® where you want it, when you want it. Being accountable to our planet is important to us and we take it seriously. From continual yield improvement initiatives to reduce, reuse & recycle programs, we are acting every day to ensure a clean and healthy planet for generations to come.

Learn more about the Thermax® N990CG advantage by contacting your local distributor or Cancarb Marketing Representative.
www.cancarb.com/distribution

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