

March 26, 2026

**Announcement of the Launch of the Dual-Shield Adapter Kit
for TIG Welding Torches, “SANARC® Stream”**

Taiyo Nippon Sanso Corporation (Head Office: Shinagawa-ku, Tokyo; President: Kenji Nagata; hereinafter “the Company”), a Japanese industrial gas business company in the Nippon Sanso Holdings Group, has developed and commercialized the dual-shield TIG welding torch “SANARC® Stream,” which employs a layered shielding gas system compared with conventional models, in collaboration with its group company, Nissan Tanaka Corporation (Head Office: Iruma-gun, Saitama Prefecture; President: Masayuki Nagahori; hereinafter “Nissan Tanaka”). Sales will begin in April 2026. The introduction of “SANARC® Stream” will contribute to improved productivity at welding sites in the manufacturing industry, which is facing a declining workforce.

* “SANARC” is a trademark of Taiyo Nippon Sanso Corporation.

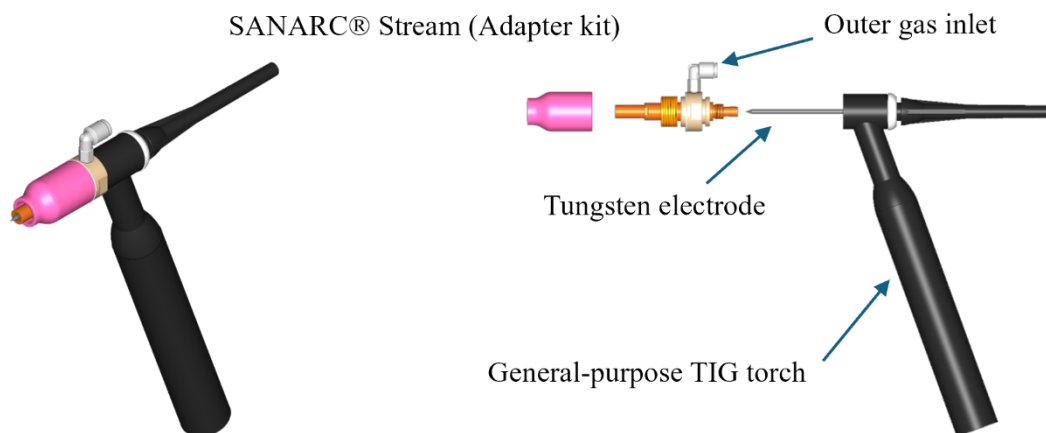


Figure 1: SANARC® Stream

Product Overview and Features

This product adopts a dual-shield system (Patent No. 6366098), using central gas and outer gas, in contrast to the conventional single-shield method. In addition, “SANARC® Stream” incorporates a proprietary internal structure (Patent No. 7722674) that enables a longer straightening region for the central gas flow. By optimizing gas flow, the system achieves deeper penetration, resulting in increased welding speed and improved weld quality, thereby contributing to enhanced operational efficiency, which is an ongoing challenge in TIG welding.

1. Improved Welding Performance through Optimization of Shielding Gas

By optimizing the central gas flow, arc stability is enhanced, enabling deeper penetration compared with conventional methods (see Figures 2 and 3). Furthermore, the use of PH SANARC® as the central gas allows for even deeper penetration, making the system suitable for medium- to thick-plate materials (see Figure 3).

2. Increased Productivity through Higher Welding Speed

Depending on the welding conditions, welding speed can be improved compared with the conventional single-shield method. The use of PH SANARC® as the central gas increases the welding speed by approximately 1.6 times compared with conventional methods, contributing to reduced operation time (see Figure 4).

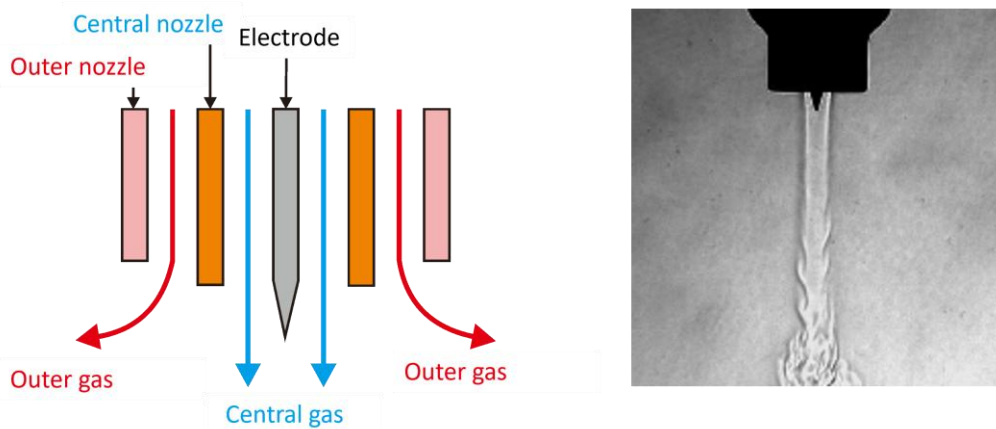


Figure 2: Optimization of central gas flow in SANARC® Stream

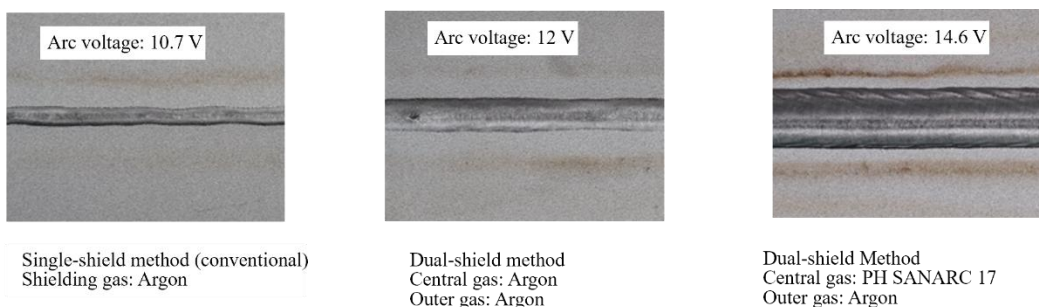


Figure 3: Comparison of back bead width (bead width = penetration)
 Conditions: SUS304, t = 3 mm, peak current: 230 A, base current: 130 A, pulse frequency: 10 Hz, welding speed: 25 cm/min

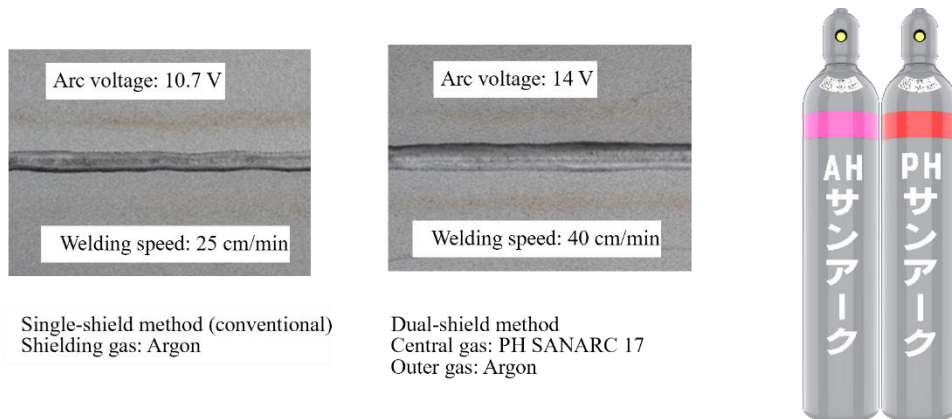


Figure 4: Comparison of welding speed

Conditions: SUS304, t = 3 mm, peak current: 230 A, base current: 130 A; pulse frequency: 10 Hz

3. Compatible with Existing TIG Torches

The adapter design facilitates installation on general-purpose TIG welding torches, enabling the system to be introduced while leveraging existing equipment.

Taiyo Nippon Sanso Corporation

Tnsc.Info@jp.nipponsanso.com