



HUTCHINSON®

We make it *possible*

STATIC SEALING GAS-INSULATED SWITCHGEAR



MEET THE SEALING REQUIREMENTS FOR NEW GASES



Butyl elastomer compound (IIR) 7BU2359, developed by Hutchinson, seals gas-insulated switchgear operating on g³ gas. It completes the range of elastomer compounds for high-voltage equipment.

The urgency of climate change is forcing the electricity transmission market to reduce emissions of gases that are harmful to the planet, and to replace gases with a high GWP (Global Warming Potential) impact with lower-impact gases such as g³.

Hutchinson, a specialist in sealing and an expert in elastomer formulation, has developed a Butyl rubber compound (IIR) 7BU2359 that seals high-voltage equipment carrying g³ gas, the alternative solution to SF₆ gas.

RANGE OF ELASTOMER COMPOUNDS

Family	Compound	Hardness (Sh.A)	Tensile strength (Mpa)	CS (%)	CS conditions	TR10 (C°)	T°C of glass transition (C°)	SF ₆ gas	g ³ gas
EPDM	7EP1881	68	14	12	24h à 150°C	-48	-57	✓	✗
NBR	PB701	68	17	12	24h à 100°C	-20	-30	✓	✗
IIR	7BU2359	67	12	10	24h à 125°C	-50	-60	✓	✓

BENEFITS OF BUTYL 7BU2359

- ▶ Compound compatible with g³ gas
- ▶ Inert to fluorinated gases
- ▶ Very good long-term impermeability (CS 10%)
- ▶ Very good impermeability to carbon dioxide (CO₂) : $3,3 \cdot 10^{-17} \text{ m}^2 \text{ Pa}^{-1} \text{ s}^{-1}$
- ▶ Wide operating temperature range from -60°C to 125°C (peak temperature 175°C)
- ▶ Withstands surface treatments to aid assembly and colour treatments to distinguish two seals of identical appearance (Poka-Yoke)

