

# Shielding gas.

# Gases for welding non-ferrous materials.

# MIG/TIG welding.

### Argon 4.6

- Best suited to welding thinner materials
- High reinforcement when MIG welding, can increase stress in weld
- Can suffer fusion and penetration problems on thicker sections

#### VARIGON He30

- Improved fusion and penetration over Argon 4.6
- Fluid weld pool reduces porosity levels and rework
- Faster welding improves productivity

#### VARIGON He50

- Improved fusion lowers defect levels and rates
- Reduced preheat requirement saves preparation costs
- Faster welding speed improves productivity

## VARIGON He70

- Ideal for automatic welding of thick aluminium and copper
- Fluid weld pool reduces need for high preheat temperatures
- Deep penetration reduces need for large weld preparations



#### MIG welding

	Welding speed	Spatter control	Porosity control	Fusion	Penetration	Ease of use	Thickness range (mm)
Argon 4.6	•	•	•	•	•	• •	1 to 4
VARIGON He30	• •	• •	• •	• •	•••	• • •	1 to 6
VARIGON He50	• • •	•••	•••	•••	•••	• •	3 to 10
VARIGON He70	• • •	• • •	• • •	•••	• • •	•	6 to 12+



## TIG welding

						Thickness
	Welding speed	Porosity control	Fusion	Penetration	Ease of use	range (mm)
Argon 4.6	•	•	•	•	• •	0 to 3
VARIGON He30	••	• •	• •	•••	• • •	1 to 6
VARIGON He50	•••	• • •	• • •	•••	• •	3 to 9
VARIGON He70	•••	• • •	• • •	•••	•	6 to 12+