

# DATASHEET

rev. 01 - 11/11/2022

## TURBO MAP

cylinder 400 gr

TSC600057



### TECHNICAL SPECIFICATIONS:

- Colourless
- Highly flammable combustible gas
- Net contents 400 g
- Suitable for all applications of cut, welding-grinding, preheating, post-heating, straightening and flame hardening.

### TECHNICAL DATA

SUBSTANCE	PURITY
Propylene [%]	≥ 99.5
Propane [%]	≤ 0.50
Ethane [Vpm]	≤ 500
Ethylene [Vpm]	≤ 100
Isobutane [Vpm]	≤ 500
Methylacetylene [Vpm]	≤ 3
Isopentane [Vpm]	≤ 10
Propadiene [Vpm]	≤ 5
Butadiene [Vpm]	≤ 50
CO <sup>2</sup> , H <sup>2</sup> O, N <sup>2</sup> + any [Vpm] other non-condensable gases [Vpm]	≤ 200
Iso-hexane RS-PLUS [vpm] other non-condensable gases [vpm]	≤ 20
Water [ppm liquid phase] other non-condensable gases [vpm]	≤ 10

## PROPYLENE PHYSICAL-CHEMICAL PROPERTIES

SPECIFICATIONS	DATA
Molecular mass [g/mol]	42,07974
Chemical formula	C <sub>3</sub> H <sub>6</sub>
Boiling point @ 1.013 bar [°C]	- 47,7
Density Gas @ 20°C (air=1) [g/cm <sup>3</sup> ]	1,52
Density Liquid @ 20°C (water=1) [g/cm <sup>3</sup> ]	0,5139
Vapourisation of the heat: constant pressure [Kcal/kg]	102
Vapourisation of the heat: relative boiling point [Kcal/kg]	51,5
Vapour pressure @ 20°C [bar(rel)]	10,20
Vapour pressure @ 50 °C [bar(rel)]	20,51
Solubility in water @ 25°C [mg/l]	200
Melting point @ 1 bar [°C]	185,25
Flammability point [°C]	-107,8
Critical Point [°C] other non-condensable gases [vpm]	91,85
Critical Point [bar] other non-condensable gases [vpm]	46
Critical Point [cm <sup>3</sup> /mol] other non-condensable gases [vpm]	181
Dynamic viscosity (liquid) mPa·s at °C	0,187
Lower/upper limits of flammability mol %	LEL 2.4% vol. UEL 11.1% vol.
Thermodynamic properties	UEL 11.1% vol.
fHO (gas) [kJ·mol <sup>-1</sup> ]	20,41
fHO [kJ·mol <sup>-1</sup> ]	62,72
CO <sub>p,m</sub> (gas @ 25°C 1 bar) [J·K <sup>-1</sup> mol <sup>-1</sup> ]	64,32
CO <sub>p,m</sub> (liquid @ 25°C) [J·K <sup>-1</sup> mol <sup>-1</sup> ]	102
combHO (gas) [K-1mol <sup>-1</sup> ]	-2057.7 ± 0.6

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### ITEMS

CODE	DESCRIPTION
TSC600057	TUBO MAP CYLINDER 400 gr