



Product sheet Acetylene 2.0

Product name	Acetylene 2.0
Physical state	gaseous form, dissolved in acetone
Chemical sign	C ₂ H ₂
Chemical designation	Ethyne
Purity	99,0 %
Standard	is not subject to any standard
Properties	see safety data sheet
Shoulder color	oxide red (RAL 3009)

Name	Material number	Bottle type	Bottle container volume	Vapour/filling pressure	Content	Valve	Properties
Acetylene T05 RCyl: 1,0 kg	A00200105	steel	5,0 l		1,0 kg	DIN 477 Nr. 3 Clamp connection	
Acetylene T10 RCyl: 1,6 kg	A00200110	steel	10,0 l		1,6 kg	DIN 477 Nr. 3 Clamp connection	
Acetylene T20 RCyl: 4,0 kg	A00200120	steel	20,0 l		4,0 kg	DIN 477 Nr. 3 Clamp connection	
Acetylene T40 RCyl: 6,3 kg	A00200140	steel	40,0 l		6,3 kg	DIN 477 Nr. 3 Clamp connection	
Acetylene T40 RCyl: 8,0 kg	A002001408	steel	40,0 l		8,0 kg	DIN 477 Nr. 3 Clamp connection	
Acetylene T50 RCyl: 10,0 kg	A00200150	steel	50,0 l		10,0 kg	DIN 477 Nr. 3 Clamp connection	
Acetylene RBundle06: 60,0 kg	A00200306	steel	360,0 l		60,0 kg	DIN 477 Nr. 3 (M 28 x 1,5 LH)	
Acetylene RBundle16: 160 kg	A00200316	steel	864,0 l		160,0 kg	DIN 477 Nr. 3 (M 28 x 1,5 LH)	



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ongoing/regular: 8.000 Bdl 6x60: short notice: 4.800

ongoing/regular: 3.000 Filling pressure: Maximum permitted over-pressure in accordance with cylinder stamping (dependent on filling quantity). Maximum withdrawal rate

l/hr at 1 bar

15°C: T10: short term: 400

ongoing/regular: 200 T20: short term: 650

ongoing/regular: 350 T40/48/50: short term: 1.000

ongoing/regular: 500 Different valve connection for bundles DIN 477 / M 24 x 2 LH

Typical applications

- as a fuel gas in the glass industry
- for thermic concrete cutting and scalping
- in carbon black manufacture
- for flame cutting
- in gouging
- for oxy-fuel welding
- for flame brazing
- for flame spraying
- for heating and straightening
- for heat jointing

Physical data

operating figures	Molar mass	26,04 g mol ⁻¹
	Ignition Range in Air	2,3-100 Vol.-%
	Calorific Value to DIN 51850	58473 kJ m ⁻³
Sublimation Point	Heat of sublimation	801,9 kJ kg ⁻¹
	Sublimation temperature	189,35 (-83,8) K (°C)
	Density	729 kg m ⁻³
Gas State	Thermal Conductivity (at 288.15 K and 1.013 bar)	0,0215 J s ⁻¹ m ⁻¹ K ⁻¹
	Density Ratio to Air (at 288.15 K and 1.013 bar)	0,91
	Specific heat (at 298.15 K and 1.013 bar)	1,69 kJ kg ⁻¹ K ⁻¹
	Density (at 273.15 K and 1.013 bar)	1,17 kg m ⁻³
Critical Point	Temperature	308,33 (35,2) K (°C)
	density	230,8 kg m ⁻³
	Pressure	61,91 bar
Triple Point	Temperature	192,4 (-80,8) K (°C)
	Vapour Pressure	1,282 bar
	Heat of Fusion	99,5 kJ kg ⁻¹



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All mentioned data, values and notes correspond to actual state of knowledge on the date of printing. They make no claim to be correct or complete and therefore do not release the user from his obligation to check them.

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