

Gas Cylinder Identification Chart for Industrial Applications

Gas / Mixture	Classification	BS EN 1089-3(2011)		ISIRI 712(2017)		Air Liquide		Messer		Linde		Common in Iran	
		Shoulder	Body	Shoulder	Body	Shoulder	Body	Shoulder	Body	Shoulder	Body	Shoulder	Body
Acetylene	Flammable	Maroon	-	Maroon	-	Maroon	Maroon	Maroon	-	Maroon	-	Maroon or Yellow	Maroon or Yellow
Air	Inert	Bright Green	-	Bright Green	-	Bright Green	Gray	Bright Green	-	-	-	Bright Green or Gray	Gray
Ammonia	Flammable	Yellow	-	Yellow	-	Yellow	Black	-	-	-	-	Yellow	Yellow
Argon	Inert	Bright or Dark Green	-	Bright or Dark Green	-	Dark Green	Dark Green	Dark Green	-	Dark Green	-	Dark Green or Blue	Dark Green or Blue
Carbon dioxide	Inert	Gray or Bright Green	-	Gray or Bright Green	-	Gray	Gray	Gray	-	Gray	-	Gray	Black or Gray
Carbon monoxide	Flammable & Toxic	Yellow or Yellow + Red	-	Yellow or Yellow + Red	-	Yellow + Red	Red	Yellow	-	-	-	Yellow	Red
Helium	Inert	Brown Or Bright Green	-	Brown Or Bright Green	-	Brown	Brown	Brown	-	Brown	-	Brown	Brown
Hydrogen	Flammable	Red	-	Red	-	Red	Red	Red	-	Red	-	Red	Red
Methane	Flammable	Red	-	Red	-	Red + Purple	Red	-	-	-	-	Red	Red
Nitrogen	Inert	Black or Bright Green	-	Black or Bright Green	-	Black	Gray	Black	-	Black	-	Black or Gray	Gray
Nitrous oxide	Oxidizing	Blue	-	Blue	-	Blue	Blue	Blue	-	Blue	-	Blue	Blue
Oxygen	Oxidizing	White	-	White	-	White	Black	White	-	White	-	Black or White	Black
Propane	Flammable	-	-	-	-	Red	Red	-	-	--	-	Red	Red
Toxic Gases or Mixtures		Yellow	-	Yellow	-	Yellow	Gray	Yellow	-	Yellow	-	Yellow	-

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		Shoulder	Body	Shoulder	Body	Shoulder	Body	Shoulder	Body	Shoulder	Body	Shoulder	Body
Corrosive Gases or Mixtures		Yellow	-	Yellow	-	-	-	Yellow	-	Yellow	-	-	-
Flammable Gases or Mixtures		Red	-	Red	-	Red	Gray	Red	-	Red	-	Red	-
Oxidizing Gases or Mixtures		Light Blue	-	Light Blue	-	Light Blue	Gray	Light Blue	-	Light Blue	-	-	-
Inert Gases or Mixtures		Bright Green	-	Bright Green	-	Bright Green	Gray	Light Green	-	Bright Green	-	Bright Green	-
Toxic and Flammable Gases or Mixtures		Yellow+ Red	-	Yellow+ Red	-	Yellow+ Red	Gray	-	-	-	-	Yellow+ Red	-
Corrosive and Flammable Gases or Mixtures		Yellow+ Red	-	Yellow+ Red	-	-	-	-	-	-	-	-	-
Toxic and Oxidizing Gases or Mixtures		Yellow+ Light Blue	-	Yellow+ Light Blue	-	Yellow+ Light Blue	Gray	-	-	-	-	Yellow+ Light Blue	-
Corrosive and Oxidizing Gases or Mixtures		Yellow+ Light Blue	-	Yellow+ Light Blue	-	-	-	-	-	-	-	-	-

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- The new standard (BS EN 1089-3: 2011), has replaced the old cylinder color scheme (BS349) in European companies. (Messer , Linde group, Air Liquide companies & others)
- Standard BS EN 1089-3: 2011 has been translated to Persian : the Iranian national standard (ISIRI 712 , new edition : 2017)
- According to these standards, for all applications hazard/identification color shall be applied to cylinder shoulder.
- For gases for medical use, the body of the cylinder shall also be color coded (white , see section 6.3)
- For applications other than medical, the cylinder body may be colored. The use of a color for the cylinder body that allow misinterpretation of the hazard of the gas is not allowed.