

Oxy-Fuel Set-Up & Safety

Acetylene

colorless gas widely used as a fuel and a chemical building block

Brazing

metal-joining process which joints two pieces of base metal by melting a metallic filler which flows across the joint and cools to form a solid bond

Carburizing Flame

flame which burns at a low temperature and can add extra carbon to welds because the flame contains more acetylene than oxygen

Check Valve

mechanical device which allows gas to flow in only one direction

Cutting Torch

torch head used to cut materials

Flint-style Striker

piece of high carbon or alloyed steel from which sparks are struck

Injector Torch

also called an equal-pressure torch, simply mixes the two gases used for oxy-fuel welding

Neutral Flame

flame in which the amount of oxygen is just enough for burning

Non-return Valve

also called a flashback arrestor, prevents the shock waves from coming back up the hoses and entering the cylinder

Oxidizing Flame

flame produced with an excessive amount of oxygen compared to acetylene; is rarely used

PSI

abbreviation for pounds per square inch; is used to measure pressure

Regulator

used to control pressure from the tanks to the required pressure in each hose

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Rose-bud Torch

type of torch used to heat metal

Torches

part welder holds and uses to make a weld

Welding Torch

torch head used to weld metals