



# IQ Cheat Sheet

## Fiberglass Conduit IQ Cheat Sheet

All the fiberglass conduit information you need - all in one place

Thanks for taking our Fiberglass I.Q. quiz - we've put together this cheat sheet so you'll have all the need-to-know facts about this lightweight, versatile conduit material at your fingertips.

### FACT 1

**Champion Fiberglass conduit is up to 15x lighter than PVC-coated steel.**

Champion Fiberglass conduit (6" diameter) weighs in at 15x lighter than the same diameter PVC-coated steel. Most diameters (when comparing a 100-foot length of conduit) are also lighter than aluminum, PVC SCH 40, PVC SCH 80, and galvanized rigid steel. This contributes greatly to lower manpower costs and faster installation times.

### FACT 2

**Champion Fiberglass conduit has a lower coefficient of friction - .38 vs. PVC-coated steel's .55.**

This means a faster, smoother cable pull and less damage to the conduit's structural integrity. Fiberglass conduit is also less susceptible to damage from the various types of pull-through lubricants common in the industry.

### FACT 3

**Many industries are increasingly choosing fiberglass conduit over GRC and PVC-coated steel.**

Today you'll find fiberglass conduit increasingly specified by project owners, engineers, and contractors from industries including wastewater treatment, port authority, utilities, transportation, chemical plants, industrial/commercial, and data center build-outs.

### FACT 4

**Fiberglass conduit does not release toxic halogens when burnt.**

Unlike PVC-coated steel and PVC SCH 40 and 80, which release chlorine and bromine when burnt, Champion Fiberglass conduit increases safety in burn conditions while acting as an excellent insulator.

### FACT 5

**You can use fiberglass conduit in combination with other conduit materials, but for best results, stick with fiberglass.**

Other products can't match the corrosion-resistance and overall long life of fiberglass conduit, and may contribute to earlier repairs, system failure and higher-than-necessary costs.

### FACT 6

**Low installation costs are a major benefit of Champion Fiberglass conduit.**

The NECA (National Electrical Contractors Association) Manual of Labor Units credits fiberglass conduit with the lowest average required installation hours for 9 out of 11 conduit diameters (1-1/4" - 6") in comparison with aluminum, PVC-coated steel, galvanized rigid steel, and PVC SCH 80 and 40.

### FACT 7

**"Phenolic" denotes conduit that meets the elevated temperature requirements for exposed conduits of both the National Fire Protection Association (NFPA 130) and the American Society for Testing and Materials (ASTM E136).**

It also features a low coefficient of thermal expansion. Because of these characteristics, it is often used as surface-mounted electrical conduit for transit and passenger rail systems.

### FACT 8

**Fiberglass conduit features superior shape retention after impact.**

Fiberglass retains its form after impact or compression - more so than several other options - offering the strength and flexibility to stand up to a range of conditions, such as earthquakes or other extreme environments. By comparison, PVC-coated rigid steel conduit is much more easily damaged because of its PVC component.

### FACT 9

**Fiberglass conduit maintains its stability in high temperatures.**

With its base temperature range of -60° to +250° (higher than that of both PVC-coated steel and PVC conduit), Champion Duct® conduit performs well in a wide range of environments. It also handles well in low temperatures, retaining its properties and allowing year-round installations. Champion Flame Shield® Phenolic conduit was designed to withstand high temperatures while Champion Haz Duct® XW Type conduit is flame resistant with low-smoke characteristics, offering solid performance in even the most volatile surroundings.

### FACT 10

**Fiberglass conduit's superior range of corrosion resistance makes it suitable for many operations/environments where PVC-coated steel is unsuitable.**

Fiberglass conduit is resistant to exposure to hundreds of types of chemicals, and endures intensive exposure to such toxic elements such as acetic acid, hydrochloric acid, glycerin, gasoline, lime slurry, lithium chloride, and naphtha.

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If you have any more questions about Champion Fiberglass conduit, please contact us. We're always ready to connect you with the answers you need.

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