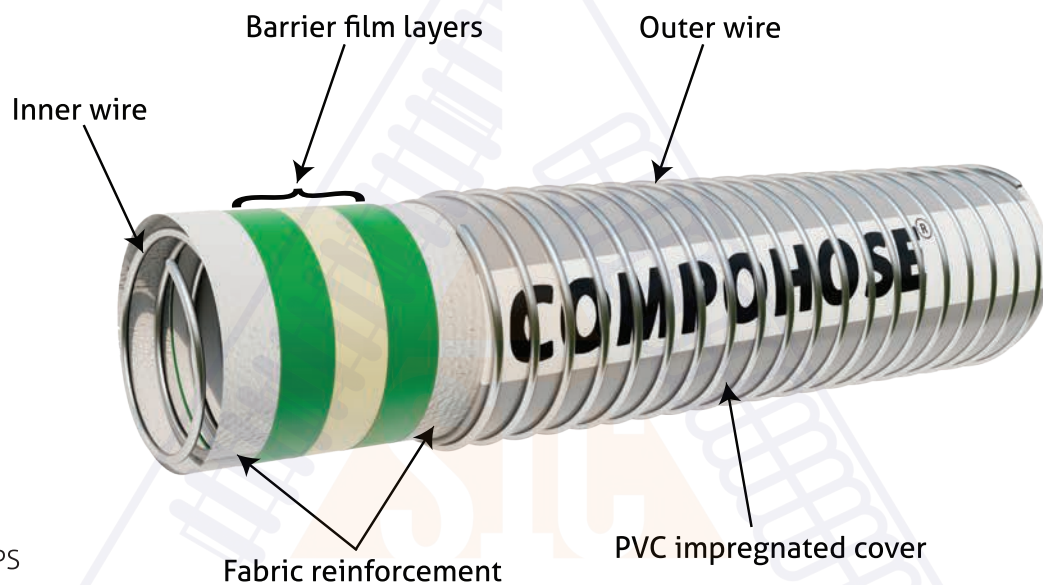


# Aviation Fuel

## (Standard Duty & Heavy Duty)

Aviation fuel transfer composite hoses are specialized flexible hose designed to transport aviation fuels efficiently and safely, such as Jet-A1 and Avgas, superior kerosene, gasoline and paraffin from pipeline to storage tanks and fuel trucks. These hoses are engineered to withstand the unique demands and stringent safety requirements of the aviation industry. Constructed using a combination of materials such as multiple layers of thermoplastic films, reinforcement fabrics, and various barrier layers, aviation fuel transfer composite hoses offer exceptional durability, flexibility, and resistance to the harsh chemicals and conditions associated with aviation fuels. The layers of these hoses are carefully chosen to ensure compatibility with the fuels, prevent fuel permeation, and maintain structural integrity over a wide range of temperatures and pressures.

**Compliance:** Aviation Fuel Transfer hoses are manufactured in accordance to EN 13765 / 2018 Type 2 & Type 3



### Construction:

**Hose Type** - SPG, SPS

**Inner Wire** - Stainless Steel 304, 316

**Inner Lining** – Multiple layers of polypropylene fabric, film and polyester barrier layers

**Outer Wire** - Galvanised Steel/Stainless Steel 304, 316

**Cover** - Abrasion-resistant PVC impregnated fabric

**End Fitting** - As per client requirements, externally crimped and swaged

### Features:

1. Tough PVC outer cover resists dragging, wearing, abrasion, UV and ozone resistance ensures maximum durability and safety.
2. Light Weight & Highly Flexible
3. Superior Electrical Continuity
4. Specially compounded inner linings.
5. Suitable for 0.9 Bar Vacuum rating.
6. Working Pressure: 10 Bar (150 PSI) (Standard Duty) & 14 Bar (200 PSI) (Heavy Duty)
7. Safety factor 4:1 as per EN 13765 / 2018 (can be achieved higher if required)
8. Temperature Range for this hose is -30° C to +100° C (-22° F to +212° F)

### Applications:

**Fuel Truck Loading and Unloading:** Aviation fuel is often transported via specialized fuel trucks from storage facilities to the airport. Composite hoses are used to load and unload fuel from these trucks, connecting them to storage tanks.

**Fuel Storage Systems:** Aviation fuel transfer hoses are used in fuel storage systems at airports, military bases, and other aviation facilities. These hoses are employed to transfer fuel between storage tanks, pipelines, and other fuel handling equipment.

**Maintenance and Testing:** Aircraft and aviation equipment often require maintenance, testing, and system checks that involve fuel transfer. Composite hoses are used to facilitate these operations safely and efficiently.

**Ship-to-Ship Transfers:** The heavy-duty composite hose is suitable for transferring aviation fuel between two ships at sea. Its robust construction and flexibility make it ideal for dynamic conditions during ship-to-ship transfers.

**Military Applications:** Military aviation requires specialized fuel handling systems. Composite hoses are used in various military aviation contexts, including air bases, aircraft carriers, and forward operating bases.

Specification Table: Type 2

CODE	SIZE		MEAN OD	MAX W.P		MIN BURST		BEND RADIUS		WEIGHT (KG)	MAX LENGTH	
	MM	INCH		BAR	PSI	BAR	PSI	MM	INCH		MT	FT
AF01SG25	25	1"	37	10	150	40	600	125	5	1.00	30	100
AF01SG38	38	1.5"	50	10	150	40	600	150	6	1.35	30	100
AF01SG50	50	2"	65	10	150	40	600	200	8	1.50	30	100
AF01SG65	65	2.5"	76	10	150	40	600	200	8	1.70	30	100
AF01SG75	75	3"	89	10	150	40	600	300	12	2.40	30	100
AF01SG100	100	4"	119	10	150	40	600	400	16	3.70	30	100
AF01SG150	150	6"	178	10	150	40	600	575	23	8.60	30	100
AF01SG200	200	8"	231	10	150	40	600	800	32	14.60	30	100
AF01SG250	250	10"	282	10	150	40	600	1000	40	19.10	15	50
AF01SG300	300	12"	331	10	150	40	600	1200	48	24.70	15	50

\*Higher burst pressure can be achieved on special request

Type 3



CODE	SIZE		MEAN OD	MAX W.P		MIN BURST		BEND RADIUS		WEIGHT (KG)	MAX LENGTH	
	MM	INCH		BAR	PSI	BAR	PSI	MM	INCH		MT	FT
AF02SG25	25	1"	37	14	200	56	800	200	8	1.00	30	100
AF02SG38	38	1.5"	51	14	200	56	800	200	8	1.35	30	100
AF02SG50	50	2"	65	14	200	56	800	225	9	1.50	30	100
AF02SG65	65	2.5"	77	14	200	56	800	225	9	2.10	30	100
AF02SG75	75	3"	90	14	200	56	800	350	14	3.00	30	100
AF02SG100	100	4"	121	14	200	56	800	400	16	5.60	30	100
AF02SG150	150	6"	179	14	200	56	800	575	23	11.00	30	100
AF02SG200	200	8"	233	14	200	56	800	800	32	16.40	30	100
AF02SG250	250	10"	284	14	200	56	800	1000	40	21.30	15	50
AF02SG300	300	12"	333	14	200	56	800	1200	48	26.70	15	50

\*Higher burst pressure can be achieved on special request

Safety Standards:

**Rigorous Safety Testing:** COMPOHOSE® assemblies undergo comprehensive testing, conducted at 1.5 times the rated Working Pressure (W.P). This stringent testing adheres to the EN 13765 standard, ensuring a paramount level of safety and reliability.

**Provision of Manufacturer's Test Certificate:** With each supply of COMPOHOSE® composite hose assemblies, a Manufacturer's Test Certificate is included. This certificate serves as a confirmation of the product's quality and compliance with safety standards, providing added assurance to users.

**Clear Burst Pressure Specification:** The burst pressure of the composite hose is explicitly indicated for ambient temperature conditions. This vital information enhances safety awareness and empowers users to operate within secure pressure limits.

**Effective Electrical Continuity:** The composite hose's electrical continuity is assured through the integration of two bonded wires connected to the end fitting. This innovative design promotes the dissipation of accumulated electrical charges, mitigating the risk of static flashes and associated hazards.

\*Hose and hose assemblies should not be used for aircraft ground fuelling and defuelling.