



## TITEFLEX S145/245 Series SERIES

### QUALIFICATIONS

SAE AS1424

### DESCRIPTION

S145/245 Series: the premier and proven all-metallic aerospace hose, qualified to AS1424. S145 performs in extreme hot and cold, beyond the range of all thermoplastic hoses. It is used extensively on Space Vehicle and Launch Vehicle applications as well as hot sections of turbine engines where performance and reliability are critical. The hose consists of a convoluted innercore formed of CRES or Inconel® tubing, reinforced with a layer of 321 CRES wire braid. Operating pressures range from 2000 PSI (138 Bar) in small diameters to 800 PSI (55 Bar) in large diameters. S145 hose operates at temperatures up to 1200°F without the need for firesleeve. Standard fittings are available in CRES or Inconel®. Hybrid assemblies combining flex hose with multi-bend tube are a Titeflex specialty and provide improved vibration dampening, ease of installation and maintenance over strictly rigid tubing. Titeflex can mold a proprietary silicone on S145 hose assemblies, encapsulating braid and innercore, for service in severe vibration applications. Where greater flexibility and tighter bend radius is required, in a less dynamic environment, Titeflex offers S245 hose. S245 is available in the same alloys as S145.

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Hose Size	Operating Pressure	Hose ID (Min)	Hose OD (Max)	Braided Hose Wt /1/	Proof Pressure	Room Temp Burst (Min)	Bend Radius (Min) /2/, /3/	Bend Radius (Min) /2/, /4/
	psi	in	in	lb/in	psi	psi	in	in
4	2,000	0.2300	0.5600	0.01600	3,000	8,000	2.000	4.000
5	na	na	na	na	na	na	na	na
6	1,800	0.3400	0.7000	0.02000	2,400	6,400	2.500	5.000
8	1,400	0.4500	0.8600	0.02800	2,100	5,600	3.000	6.000
10	1,200	0.5700	1.0000	0.03800	1,800	4,800	4.000	8.000
12	1,050	0.7000	1.150	0.04200	1,575	4,200	4.500	9.000
16	800.0	0.9500	1.450	0.05800	1,200	3,200	5.000	10.000

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