

PRODUCT DATA SHEET

1.0 SCOPE

- 1.1 This specification describes style SG/SGI/SR/SRIR gaskets which are classified as semi metallic gaskets.
- 1.2 Spiral Wound Gaskets are one of the most common metal gaskets used for flange sealing. They are available in various designs to suit a wide range of flange applications for power generation, refineries and petrochemical and chemical industry.

2.0 CONTENT AND CONSTRUCTION

- 2.1 Content
 - 2.1.1 Metal windings from Stainless Steel
 - 2.1.2 Sealing layer from Graphite or PTFE
 - 2.1.3 Optional Inner Support Ring from Stainless Steel
 - 2.1.4 Optional Outer Support Ring from coated Steel
- 2.2 Construction
 - 2.2.1 A spiral wound gasket consists of flexible metal windings wound together with a soft filler material such as graphite, PTFE placed between the windings.

3.0 TYPICAL PROPERTIES

- 3.1 Temperature capabilities
 - 3.1.1 With graphite filler 450°C
 - 3.1.2 With PTFE filler 300°C
- 3.2 Pressure capabilities
 - 3.2.1 Up to 350 bar
- 3.3 Design factors

Profile	AWC-SR/SG	AWC-SRIR/SGI
Material	1.4571/Graphite	1.4571/Graphite
Gasket Factor "m"	3.0	3.0
Seating Stress "Y" (psi)	10,000	10,000

Profile		AWC-SR/SG	AWC-SRIR/SGI*
Material		1.4571 Graphite	1.4571/Graphite
Recommended min. and max gasket stresses at 20°C (N/mm²)	σ_v	50	50
	σ_u	150	300*
Recommended min. and max gasket stresses at 300°C (N/mm²)	σ_v	60	60
	σ_u	120	220*

* Maximum allowable stress levels apply to spiral wound gaskets with inner and outer support rings, profile SGI or profile SRIR in norm designated groove.

- 3.3 Chemical properties
 - 3.3.1 pH 0-14 (depending on metal carrier material)
- 3.4 Approvals
 - 3.4.1 Style SG/SGI/SR and SRIR are TA-Luft approved

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