



Composite Gasket

1. Conformance:

The key reason for selecting composite gasket materials is their ability to seal under less-than-ideal flange conditions. No flange is perfect. [Conformance makes up for variations in flange stiffness, surface finish, deformation, deflection, etc.](#)

2. Cost:

First and foremost, make sure to look at the total cost of the design, not just part cost. Typically, the overall cost of a composite solution is less than MLS designs. Machining costs must also be considered.

Unlike MLS, flanges need not be mirror-smooth, as composites actually work better when there is some roughness to conform to.

3. Small quantity solutions:

Cost of fabrication of the parts must be considered. In small quantities, parts can be easily cut by various methods (such as flash-cutting, or laser-cutting).

Steel-rule-die tooling is also inexpensive for a short quantity run and can be made to cut the metal core products.

4. Large quantity solutions:

Matched steel tooling can be designed to run high volume parts.

Composite products can be made in slit coils, making production simple with a high speed, automated line, thus keeping costs down.