



---

WASHER STEEL

---

1.0 SCOPE: To establish requirements for carbon steels typically used for metal washers on gasket washers.

2.0 REQUIREMENTS:

2.1 MATERIAL: 1065-1095 carbon steel (reference SAE J773)

2.2 CHEMICAL COMPOSITION: (For information only) (Reference SAE J403)

Carbon: 0.60-1.03%

Manganese: 0.60-0.50%

Phosphorus: 0.040% maximum

Sulfur: 0.050% maximum

2.3 PHYSICAL PROPERTIES: (For information only) (Reference SAE J1397)

Tensile Strength: 100,000-120,000 psi

Yield Strength: 55,000-66,000 psi

Elongation in 2 inches: 12-10%

Rockwell C Hardness: 40-50

3.0 DEFINITIONS: None.

4.0 GENERAL INFORMATION: None.

5.0 RELATED STANDARDS OR SPECIFICATIONS:

5.1 REQUIRED: None.

5.2 REFERENCE: SAE J403, SAE J773, SAE J1397

6.0 REVISION HISTORY:

Revision 0 - January 1968; Released.

Revision 1 - April 1985; ESO 8504096; Revised format, expanded range of material to include alternate materials.