Asbestos Gasket Sheet — Technical Data Sheet / Datasheet / TDS

1) Compressed Asbestos Fibre (CAF) — rubber-bonded jointing sheets (most historically used “asbestos gasket sheet”)

A — Properties (typical)

Property	Typical value / notes
Composition	Chrysotile (white) asbestos fibres + mineral fillers + rubber binder (NBR / SBR / other) — calendered/pressed.
Appearance	Black / dark sheet (rubber-bonded) or grey; usually smooth; may be supplied with anti-stick surface.
Density	~1.6 – 2.0 g/cm³ (depends on formulation).
Temperature capability	Typical working up to ~300–380 °C (varies by grade); some heavy-duty or graphited reinforced styles rated higher in short-term service per supplier specs.
Pressure capability	Good sealing at low-to-moderate flange pressures; reinforced variants rated for higher bolt loads / pressures.
Chemical resistance	Good to steam, water, many chemicals; oil/fuel resistance depends on binder and specific grade (oil-resistant CAF variants exist).
Mechanical	Good conformability, reasonable compressive recovery; compression set depends on binder.
Reinforcement	Available plain or reinforced with wire gauze/mesh for higher pressure/thermal shock service.
Standards / specs	Historically referenced in jointing standards and national specs (e.g., IS 2712 for compressed asbestos fibre jointing).
Hazards	Asbestos fibers are carcinogenic if inhaled. Handling, cutting or removal must follow regulated procedures.

2) Reinforced / Wire-mesh (metal-reinforced) asbestos gasket sheets

A — Properties (typical)

Property	Typical
Composition	CAF matrix (as above) with embedded steel/SS wire gauze or tanged metal inserts for mechanical reinforcement.
Temperature / pressure	Enhanced mechanical and pressure capability vs plain CAF; used where thermal shock or cyclic loading occurs.
Use case notes	Better for exhaust manifolds, engine flanges, high-bolt-load joints; still subject to asbestos health rules.

3) Asbestos millboard / insulating sheets (high-temperature insulation gaskets)

A — Properties (typical)

Property	Typical
Composition	Dense asbestos fibre assembly (millboard), sometimes impregnated for rigidity (may be non-flexible relative to CAF).
Temperature capability	Excellent thermal insulation and very high-temperature resistance (used as thermal barriers / insulation gaskets).
Typical uses	Furnace door seals, oven insulation, thermal barrier gaskets, high-temperature insulation panels.

4) Asbestos rope / yarn & woven gasket materials

A — Properties (typical)

Property	Typical
Composition	Loosely woven or braided asbestos fibres (sometimes with binder/graphite)
Use	Packing, rope gaskets, door seals where extreme heat resistance needed (but high exposure risk when handled/damaged).