

What flaws can MT find in steel pipe?

Magnetic Particle Testing (MT)

Flaw/condition	Is MT suitable?	Comment
Surface crack in carbon steel	Yes	A primary MT application
Near-surface discontinuity in ferromagnetic steel	Yes, with depth limits	Sensitivity depends on magnetization method and current type
Deep internal flaw	No, not the primary method	UT or RT is usually more appropriate
Austenitic stainless 304/316	No	Insufficient ferromagnetism for MT; consider PT or another method

Source / basis: <https://niktrd.com/magnetic-particle-testing>