

自動車排気系用ステンレス鋼板^{*1}

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Stainless Steels for Automotive Exhaust System

KAWASAKI STEEL AUTOMOTIVE EXHAUST SYSTEM

1 緒 言

R430LNM および R430CuN の 3 鋼種がほぼ同程度でこれに続いている。Fig. 2 に酸化試験結果を示す。R429EX, R430LNM および

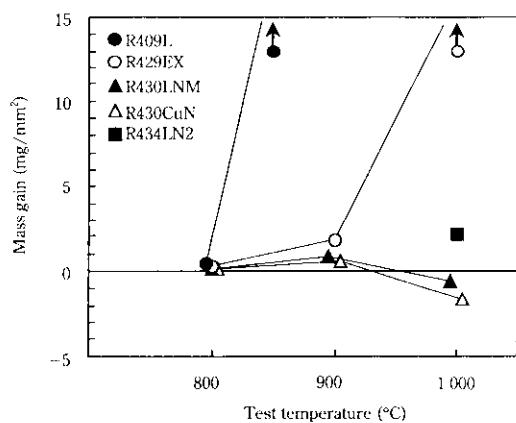


Fig. 2 Mass change of stainless steels for exhaust manifold after oxidization at various temperatures for 200 h in air

Heat treatment (400°C × 5 h in air)

Dip & dry test with beaker

Replacement of test solution

Full immersion

Keep 80°C

Complete evaporation of solution

Soft brushing specimen & washing beaker

Evaluation of corrosion depth after 10 cycles

Chemical composition of the synthetic exhaust gas condensate

(ppm)

Cl ⁻	SO ₄ ²⁻	SO ₄ ²⁻	CO ₃ ²⁻	NO ₂	NO ₃	CH ₃ COO	HCHO	COOH	NH ⁴⁺	Activated carbon
250	1250	1250	2000	100	20	400	250	100	2500	50 g/l

