(Michio Kobari)

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Synopsis :

Kwasaki Steel has developed dull-finished stainless steel sheets for building use. Their main features are: (1) soft tone appearance, (2) good flatness, (3) excellent surface uniformity, and (4) availability of three different surface finishes (i.e., rough tone, fine tone, and the emboss-dull finish which is characterized by emboss patterns on the reverse side). Color variation in combination with the FANCY COAT COLOR system is also available. The dull-finished stainless steel sheets with rough tone have been successfully used for the exterior walls of the annex of Kawasaki Steel's Research Laboratories.

ダル仕上げステンレス外壁材の開発*

川崎製鉄技報
24 (1992) 3, 214-218

Exterior Panel

要旨

川崎製鉄では，建築内・外装用の新しいダル仕上げステンレスを

Table 1 Comparison of manufacturing methods of dull finished stainless steel

	Manufacturing process	Merits	Demerits
Roll method	Rolling with rolls engraved by spark etching, chemical etching, blasting, laser etching and	1. Excellent flatness 2. High productivity	1. Unsuitable for small lot production

Table 2 Variety of Kawasaki Steel's dull finished stainless steel and their features

Description	Features
Dull finish (rough tone)	· Dull finish with relatively rough surface profile · Rondom emboss-like appearance at close look
Dull finish (fine tone)	· Dull finish with relatively fine surface profile

Table 3. Durability of clear coatings (post coat) on dull finished (rough tone)

Test item	Conditions	Results	
		Fluolo-resin paint	Silicon-aclylic resin paint
Hardness	Pencil Test (JIS)	3 H	4 H
Boiling water	500 h in boiling water	Normal	Normal
Complex-cycle test	[SST 4 h → Dry(60°C)2 h → Wet(50°C–95%RH)2h] 10 cycle	Normal	Normal