



YU 204C

● YU 204C (節鎳型鋼種)



YU 204C<節鎳型沃斯田鐵系鋼種>

YU 204C <Low-nickel austenitic Stainless Steel>

一、產品特性

1. 具成本優勢。
添加少量鎳元素，相較於304具有低成本穩定之優勢。
2. 單位強度高於304鋼種。

二、應用

具光亮表面、高強度及適當的成形性，在低腐蝕環境下，可部份取代304，廣泛用於建築結構、裝飾用板、餐廚鍋具、家電製品等。

三、成份

III. Chemical Composition

I. Product Features

1. Cost advantage
Cost is more competitive and stable than grade 304 series stainless steel for only containing small amount of nickel.
2. Unit strength is higher than grade 304 stainless steel

II. Applications

204C is with glossy surface finish, high strength, and proper formability. In low corrosion environments, it can be used to partially replace 304, and can be widely used in building structures, decorative panels, kitchenware, home appliances, etc.

鋼種 Grade	化學成份 Chemical Composition (wt%)					
	Ni	Cr	Mn	Cu	N	N
YU 304 (代表例)	8.10	18.20	0.70	-	0.05	0.03
YU 204C (代表例)	2.30	17.20	9.00	1.10	0.12	0.18

四、機械性質

IV. Mechanical properties

鋼種 Grade	降伏強度 Yield Strength (MPa)	抗拉強度 Tensile Strength (MPa)	伸長率 Elongation (%)	硬度 Hardness (HRB)
YU 204C (0.5mm/代表例)	≥ 170	≥ 485	≥ 40	≤ 92
YU 204C (2.0mm/代表例)	≥ 200	520~700	≥ 45	-
YU 304 (代表例 Typical)	≥ 220	520~700	≥ 45	-

YU 204C強度高於一般ASTM 304，可降低材料的厚度需求。

Strength of YU 204C is significantly higher than the regular ASTM 304; it can therefore reduce the thickness requirement of the material.

五、耐蝕性

不銹鋼之主要耐蝕性來自添加Cr元素所形成之鈍化膜，Ni元素添加則可安定鈍化膜，故204C之耐蝕性低於一般304鋼種，建議使用於低腐蝕環境下。

YU 204C經#240表面研磨後，依照下表參數進行鹽霧試驗，可通過10個cycles。

V. Corrosion Resistance

The corrosion resistance of stainless steel comes mainly from the passivation film formed with Cr added. Moreover, the passivation film can be stable with Ni added. Therefore, corrosion resistance of 204C is weaker than regular 304 steel. It's recommended to be applied in low corrosion environments.

Via #204 surface polishing process, YU 204C4 can pass 10 cycles in the salt spray test using the parameters listed in the table below.

六、可接單尺寸及表面品級

請與燁聯業務人員接洽。

VI. Available dimensions and surface finish

Please contact the sales representative of Yieh United Steel Corp.



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