Created by	Technical Information	Page: 1 of 1
QA Engineer		
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NZTM-Q07B:- Aluminium Coated Steel (Aliclad) Coil Specs - Drawing Quality (DDS)

This internal specification covers the mechanical properties and chemical compositions of Aluminised Steel coil imported and used by New Zealand Tube Mills for the manufacture of tubular product.

Aluminium coated steel to ASTM A463
Hot-dip coated with an aluminium/silicon alloy to promote better adherence.
It is intended principally for heat resisting applications and also for uses where corrosion resistance and heat are involved.

YIELD STRESS (min)	190 MPa or 19.4 kgf/mm^2
TENSILE STRESS (min)	275 MPa or 28 kgf/mm^2
ELONGATION (min.)	1.0 < Wall Thickness ≤ 1.6mm = 36% 1.6 < Wall Thickness = 37%
HARDNESS	80 - 120 HV

NORMAL RANGE OF MECHANICAL PROPERTIES OF STRIP

YIELD STRESS	190 to 245 MPa
TENSILE STRESS	315 to 345 MPa
ELONGATION	39 to 46 %
HARDNESS	90 - 118 HV

SPECIFIED CHEMICAL COMPOSITION - (LADLE ANALYSIS)

CARBON	C	0.100 % max.
MANGANESE	Mn	0.500 % max.
PHOSPHORUS	P	0.025 % max.
SULPHUR	S	0.035 % max.

ALUMINIUM COATING WEIGHT

COATING WEIGHT (T1-40)	**120 g/m^2 Total both sides (40 oz/ft^2)** Type 1 Coating

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