

STAINLESS STEEL**MARTENSITIC GRADE _ SQUEEGEE BLADES****DSM 1.2.2****Martensitic:** (400 series)

- Corrosion resistance, inferior to Austenitic grades.
- Magnetic in all conditions.
- Can be hardened and strengthened by heat treatment.
- Max. service temp. 400°C

Definition:

7C27Mo2 (Sandvic): A hardened & tempered **martensitic** chromium stainless steel formulated with additional molybdenum to provide good formability. It offers high tensile & fatigue strength with good surface finish. Suitable for corrosive environments and/or working temp $\leq 400^{\circ}\text{C}$.

716 (Uddeholm): As above, formulated for thinner applications where impact strength & toughness are essential. This variant is delivered in the hardened & tempered condition for enhanced bending & impact fatigue.

Stainless 1.4028Mo: A hardened and tempered stainless chromium steel, equivalent to above.

ASM (DEK) Applications:

Metal squeegee blades for all applicable printers.

These values are representative and should not be considered as definitive. For critical applications, refer to material data-sheet.

TYPICAL MECHANICAL PROPERTIES @25°C	
DENSITY:	7700 Kg/m ³
YOUNGS MODULUS:	200 GPa
POISSONS RATIO:	0.28
YIELD STRENGTH	1320 MPa @ 0,90mm
Max. TENSILE STRENGTH	1620 MPa @ 0,90mm

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These sizes are given in good faith and should not be considered as definitive

Strip Material Thickness (mm)

0.1	0.152	0.203	0.254	0.279	0.305	0.381	0.406
0.457	0.508	0.559	0.60	0.635	0.70	0.80	0.90
1.15							

STAINLESS STEEL

MARTENSITIC GRADE _ SQUEEGEE BLADES

DSM 1.2.2

CHEMICAL ANALYSIS	7C27Mo2	716	1.4028Mo	BENEFIT
Chrome	13.5	13.5	13.5	Good for corrosion resistance.
Molybd.	1.0	1.0	1.0	Combined with Chrome, improves tensile strength.
Carbon	0.38	0.38	0.36	Improves hardness & strength.
Mang.	0.55	0.55	0.45	Improves high temperature ductility.
Silicon	0.4	0.45	0.4	Improves resistance to oxidation.
Sulphur	0.010max	0.015max	0.015max	Good for machining.

APPROXIMATE INTERNATIONAL COMPARISON	7C27Mo2	716	1.4028Mo
GERMAN: DIN	X46 Cr13	X38 CrMoV15	X30 Cr13
AMERICAN: AISI	420C	420	420B
EUROPEAN STEEL No.	1.4034	1.4117	1.4028
JAPANESE GRADE (JIS)	SUS 420	SUS 420	SUS 420J2
CHINA GRADE	GB 3Cr13	GB 4Cr14MoV	GB 3Cr13

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