GRAVITY CAST PVT. LTD.
GRAVITY GROUP OF COMPANIES

Material - KS D 3698 STS446M

Standard Specification for Cold-Rolled Stainless Steel Sheet and Strip

Group - Ferrous Stainless Steel Alloys

Sub Group - KS D 3698 STS446M Cold-Rolled Stainless Steel Sheet and Strip

Application - Intended for Valve, Pump, General Engineering, Automotive and Other Industries

Grade Belongs to the Industry - Sheet and Strip

Chemical Composition		
Carbon	C %	0.015 max.
Silicon	Si %	0.400 max.
Manganese	Mn %	0.400 max.
Phosphorus	P %	0.040 max.
Sulphur	S %	0.020 max.
Chromium	Cr %	25.000 - 28.500
Molybdenum	Mo %	1.500 - 2.500
Nitrogen	N %	0.018 max.
C + N	C% + N%	0.030 max.
Nickel	Ni %	0.300 max.
Copper	Cu %	0.600 max.
Aluminium	Al %	0.250 max.
Iron	Fe %	Balance
-	-	-
-	-	-

Heat Treatment
As-Raw or Annealing or Quenching + Tempering

Mechanical Properties	
Tensile Strength in Mpa	430 min.
Yield Strength in Mpa	270 min.
Elongation in %	20 min.
Reduction of Area in %	-
Hardness in HB	-
Impact in Joule	-

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Cross Reference Table			
Material	**Standard**	**Country**	**Grade Belong to the Industry**
3583 1 MoCr 260	STAS	Romania	Steel
X 1 CrMo 26 1	DIN	Germany	Steel
1.4131	DIN	Germany	Steel
J 405 XM-27	SAE	USA	Steel
D 3698 STS XM27	KS	Korea	Plate, Sheet and Strip
G 4305 SUS XM27	JIS	Japan	Plate, Sheet and Strip
SA-815 WP27	ASME	USA	Steel

Further any inquiry to discuss with Gravity Cast Pvt. Ltd. – Gravity Group of Companies team member Call on +918469160029, or email marketing@gravitycastindia.com

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