

**Material Specification Sheet:****UML – SAE4140****Grade-** SAE4140

International Steel Grades

DIN : 42Cr4Mo2

**Material Group : Through Hardening Steel**

<b>Chemical Composition</b>	C	Mn	P	S	Si	Cr	Mo
%	0.38/ 0.43	0.75/ 1.00	0.035 max.	0.035 max	0.15/ 0.35	0.80/ 1.10	0.15 /0.25

**Application** : For through hardening applications**Metallurgical Properties:**

Inclusion Rating : A 1.5/0.5, B C D 1.5/1.0, E 45 A

Grain Size : Fine grain size - ASTM No. 6-8

Decarburization &amp;

Surface Imperfections : 1 % of size max.

Microstructure : Pearlte+Ferrite

**Mechanical Properties** :

Coils, Hot rolled : 350 BHN max.

Coils, Hot rolled ,Annealed: 180 BHN max