

**Material Specification Sheet:****UML – En8D****Grade-** En8D

International Steel Grades

DIN : CK45

**Material Group : Carbon Steel**

<b>Chemical Composition</b>	C	Mn	P	S	Si	Cr
%	0.40/ 0.45	0.70/ 0.90	0.035 max.	0.035 max	0.15/ 0.35	0.20 max

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

Inclusion Rating : A B C D 2.0/1.0 E 45 A

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

Decarburization &amp;

Surface Imperfections : 1 % of size max.

Microstructure : Pearlite+Ferrite

**Mechanical Properties :**

Coils, Hot rolled : 240 BHN max.

Coils, Hot rolled ,Annealed: 180 BHN max