

	SARA SAE ENGINEERING SPECIFICATION	
	Section: SES 26 – 779	
	Issue: "A"	Rev No: "0"
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**DIE STEEL MATERIAL SPECIFICATION FOR DB6**  
**AS PER DIN 17350- MATERIAL NO. 1.2714-56 Ni Cr Mo V7**

Rev	Reason of Change	Date	Made By	Reviewed By	Approved By	Status
2	-----	20-09-2014	Zeenat	D.P. Raturi	K.C. Raturi	Released

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**DIE STEEL MATERIAL SPECIFICATION FOR DB6**  
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## 1.0 SCOPE

- 1.1 Die Steel (DB6) as per DIN 17350- material no. 1.2714-56 Ni Cr Mo V7 wrought shapes heat-treated.
- 1.2 Product forms covered by this specification are mill shapes.

## 2.0 REQUIREMENTS

- 2.1 **Chemical composition** : Chemical composition limits are listed below. An analysis of each heat of steel be made by the manufacturer, preferably from a ladle sample taken at or near the time of pouring. The listed elements shall be reported in weight percent. Reporting of residual elements is not required, but total residuals must not exceed 1%.

ELEMENTS	COMPOSITION RANGE (%)
Carbon (C)	0.50-0.60
Manganese (Mn)	0.65-0.95
Silicon (Si)	0.10-0.40
Sulphur (S)	0.030(max.)
Phosphorus (P)	0.030(max.)
Chromium (Cr)	1.00-1.20
Molybdenum (Mo)	0.45-0.55
Nickel (Ni)	1.50-1.80
Vanadium (V)	0.07-0.12

- 2.2 **Mechanical Properties** : Mechanical property requirements are listed below. Each heat shall be tested and the listed mechanical properties shall be reported.

MECHANICAL PROPERTIES	RANGE
BRINELL HARDNESS	380-400 BHN

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### **3.0 INSPECTION**

Material shall be inspected and free of laps, seams, cracks or other injurious indications.