

CONCOR SCREW MATERIALS

	O.D. Wear Resist.	Root Wear Resist.	Corrosion Resistance	Toughness	Ease of Machining	Weldability
Alloy Steel						
AISI 4140	Fair1	Fair3	Poor2	Good	Fair	Very Good
Nit. 135 M	Fair1	Fair3	Poor2	Good	Fair	Very Good
Stainless						
304	Poor	Poor	Very Good	Poor	Fair-Poor	Very Good
17-4PH	Poor1	Fair	Very Good	Good	Fair-Poor	Very Good
Tool Steel						
CPM-10V	Excellent	Excellent	Good	Fair	Fair	Poor – Fair
CPM-9V	Excellent	Excellent	Good	Very Good	Fair	Good
CPM M4	Excellent	Excellent	Good	Fair	Fair	Poor
D-2	Very Good	Very Good	Fair-Good	Fair	Fair	Fair
Lescowear	Excellent	Excellent	Fair-Good	Fair	Fair	Poor
C-17	Very Good	Very Good	Very Good	Very Good	Fair	Good
20CV	Very Good	Very Good	Very Good	Very Good	Fair	Good
S90V	Very Good	Very Good	Very Good	Very Good	Fair	Good
CPM3V	Very Good	Very Good	Good	Very Good	Fair	Good
Specialty Materials						
Duranickel 301	Poor-Fair	Poor-Fair	Excellent	Good	Very Poor	Good
Hastelloy	Poor	Poor-Fair	Excellent	Fair-Good	Fair-Good	Good
C-276						

1) Usually improved by hardsurfacing. 2) Usually improved by chrome plating. 3) Usually improved by ion nitriding.

CONCOR BARREL MATERIALS

	Wear Resistance	Corrosive Resistance
Nitrided		
4140	Fair	Poor
NIT 135M	Fair	Poor
Tool Steels		
D2	Good	Good
PM M4	Excellent	Good
CPM 10V	Excellent	Good
Lescowear	Excellent	Good
20CV	Very Good	Very Good
Vanadis 23	Excellent	Good
S90V	Very Good	Very Good
Bimetallic		
Std. Bimetallic	Good	Good
Premium Bimetallic	Excellent	Very Good
Std. Corrosion	Fair	Very Good-No Inconel Protection
Premium Corrosion	Poor	Best (Fluoropolymers Only) w/ Inconel Protection