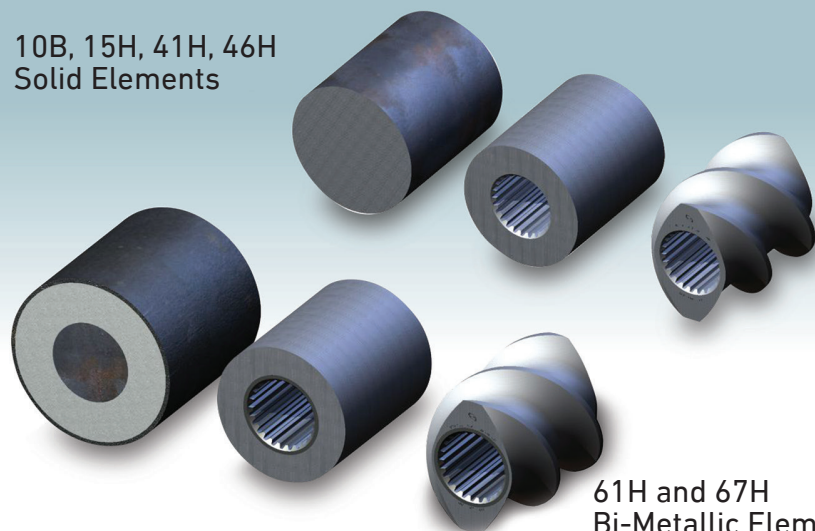


ENTEK Material Specifications for SCREW SEGMENTS

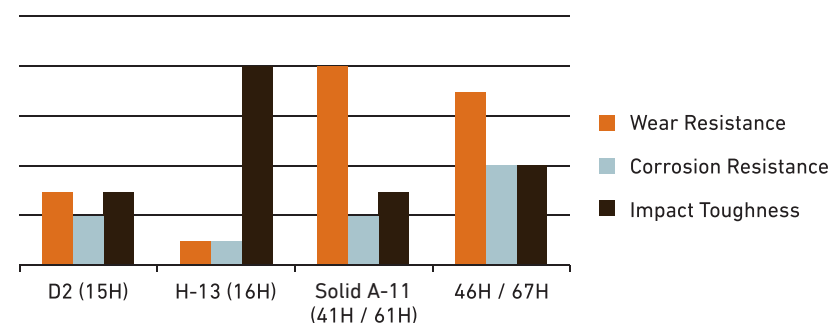
For Sizes	Material Code	Surface Treatment	Surface Hardness	Specifications	Common Applications
All	15H	Through-hardened	58 - 60 HRc	D2 tool steel	Low corrosion applications with more wear resistance than N135. Through hardened so wear does not accelerate toward end of life.
All	16H	Through-hardened	46 - 49 HRc	H13	Used in high impact zones, feed screws (CoFs), and mixing elements (CoMs). Through hardened so wear does not accelerate toward end of life.
27mm - 43mm	41H	Through-hardened	60 - 62 HRc	Solid PM A-11	High wear, non- corrosive applications such as highly filled color compounding. Solid 41H = 27mm - 43mm. Bi-Metallic 61H = 53mm and up.
53mm and up	61H	PM - HIP, bimetallic	60 - 62 HRc	Mild steel core (typ.1018), PM exterior	
27mm - 43mm	46H	Through-hardened	56 - 59 HRc	Solid PM	High wear, high corrosion applications such as organic fiber, aggressive volatiles, solvents/acids, in conjunction with abrasive components. Solid 46H = 27mm - 43mm. Bi-Metallic 67H = 53mm and up.
53mm and up	67H	PM - HIP, bimetallic	56 - 59 HRc	Mild steel core (typ. 1018), PM exterior	

10B, 15H, 41H, 46H
Solid Elements



61H and 67H
Bi-Metallic Elements

Screw Material Wear Chart



Warning! Solid PM material (no soft core) can be prone to cracking in high impact conditions.

*Please note: We have provided a range of the most economic, medium and high end grade products which are standard stock materials by ENTEK. Other materials are available upon request (not stocked). Nickel-based options exist for very high corrosion resistance requirements (not stocked).

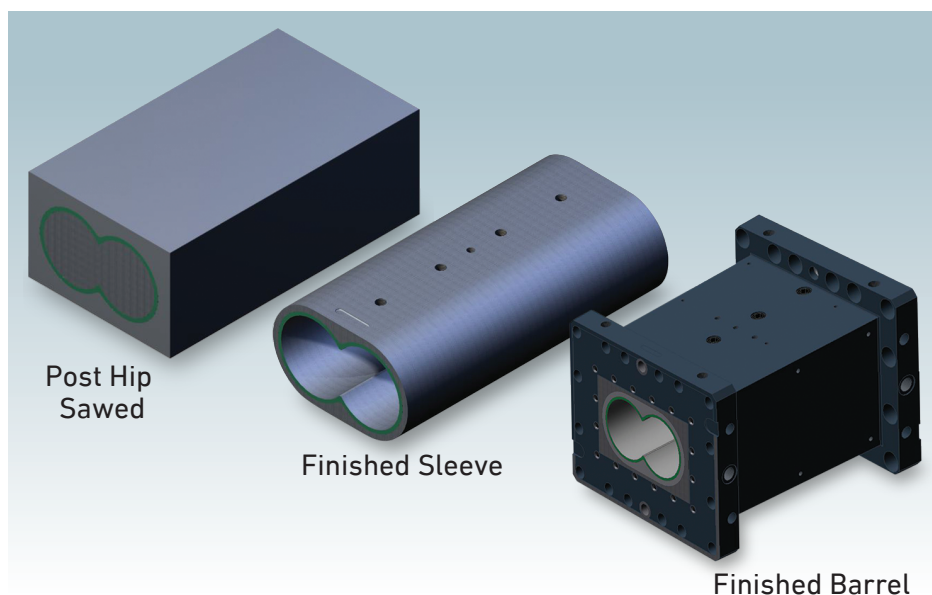
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TWIN-SCREW EXTRUDERS | REPLACEMENT WEAR PARTS | TURNKEY PLANT SERVICES | MATERIAL HANDLING | TRAINING PROGRAMS

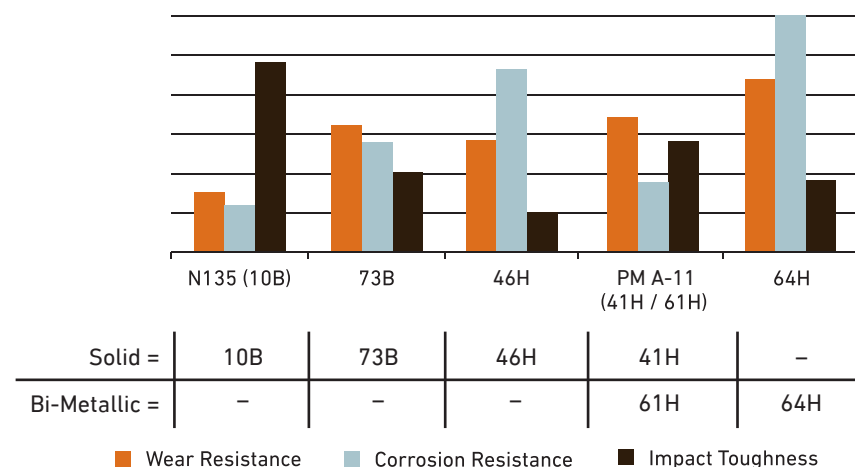
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ENTEK Material Specifications for BARREL SEGMENTS

For Sizes	Material Code	Surface Treatment	Surface Hardness	Specifications	Common Applications
All	10B	Nitrided	61 - 63 HRc	Non-sleeved, N135	Low wear, low corrosion applications such as color compounding, or where high toughness is required; feed barrels on 43mm, 73mm, and 103mm.
All	73B	Cast material - Nitrided	52 - 58 HRc	Sleeved	Medium wear, medium corrosion applications providing more wear and corrosion resistance than 10B.
27mm - 40mm	41H	Through-hardened	60 - 62 HRc	Sleeved	High wear, high corrosion applications such as abrasive mineral fill, silica, fiberglass, organic fiber and /or chemical solvents, acids. Solid 41H, 46H = 27mm - 40mm. Bi-Metallic 61H, 64H, 80H = 43mm and up.
27mm - 40mm	46H	Through-hardened	56 - 59 HRc	Sleeved	
43mm and up	64H	PM - HIP	61 - 63 HRc	Sleeved	
43mm and up	61H	PM - HIP	60 - 62 HRc	Sleeved	



Barrel Material Wear Chart



*Please note: We have provided a range of the most economic, medium and high end grade products which are standard stock materials by ENTEK. Other materials are available upon request (not stocked). Nickel-based options exist for very high corrosion resistance requirements (not stocked).

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