



# SB Specialty Metals LLC

Your *First Choice* for Specialty Metals

## PSB22 - Premium ESR Tool Steel

**Electro Slag Remelt (ESR) refines tool steel structure.**

Conventional production



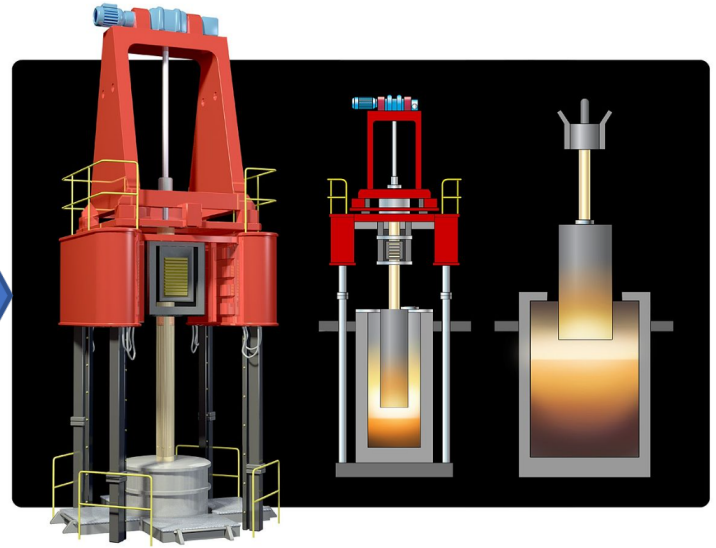
Remelting process removes sulfide and inclusions.



Resulting in high quality ingots

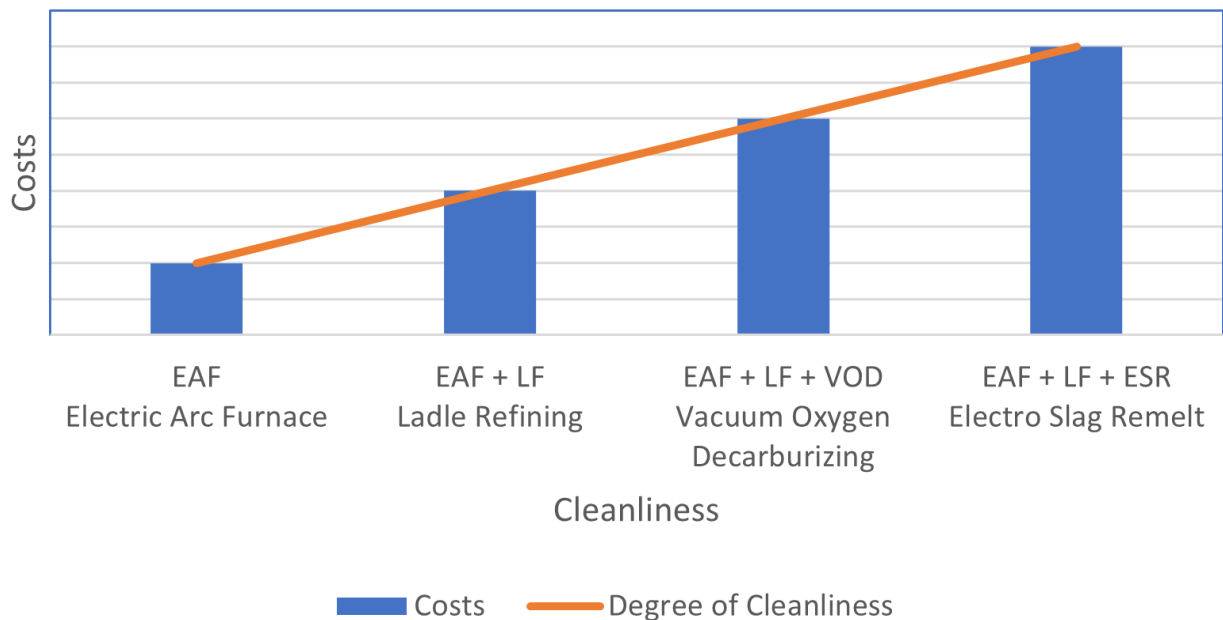


Ladle refining during conventional steel making process



Electro Slag Remelting process

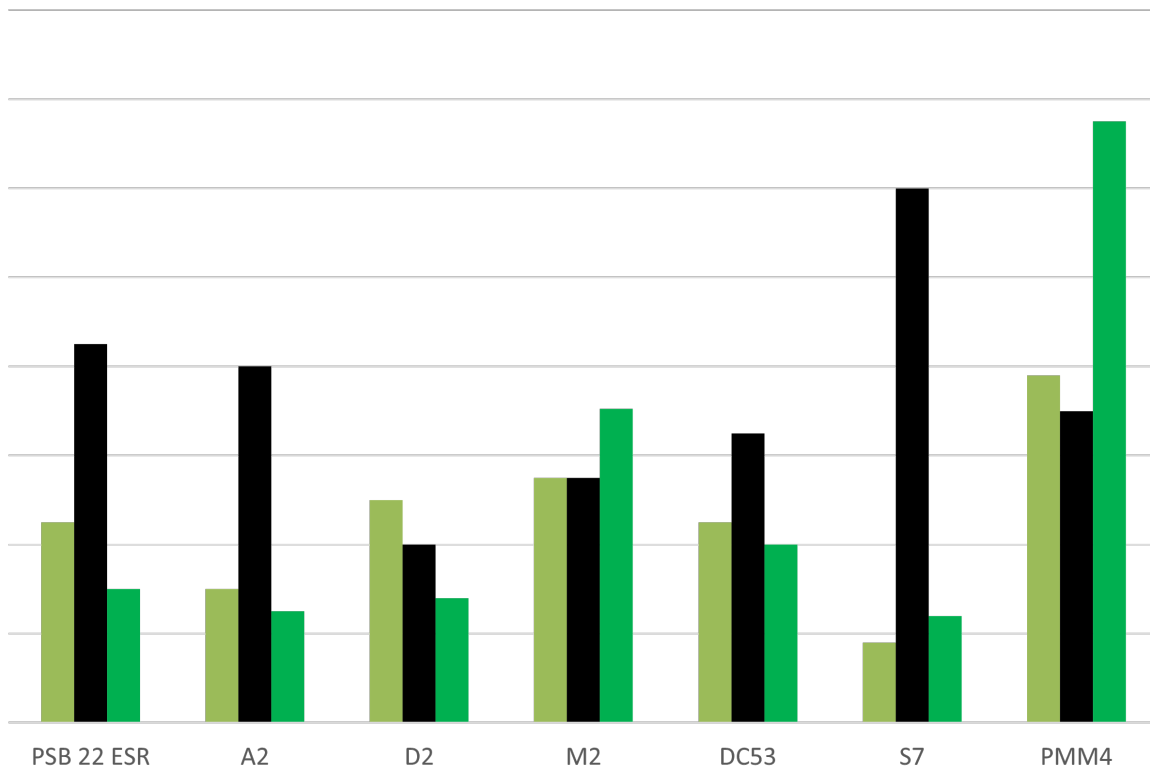
### Conventional Steel Making processes



## PSB22 - Premium ESR Tool Steel

Total Tooling Cost .....Find your balance

■ Wear Resistance ■ Toughness ■ Cost



PSB22 ESR should be considered for the following applications.

Applications	Replaces	Reason to consider replacing
Thread rolling and header tooling, form roll knurls and knurling tool holders, rolling dies, extrusion dies, automotive stamping dies.	A2 and D2	Extended wear at a good price. Higher tempering temp allows coatings that require high temp.
	M2	Lower total tooling cost.
	PMM4	Lower total tooling cost and more availability.
Punches and dies.	DC53	To get ESR quality, more availability, lower cost..
Tire Shredders and shredding equipment.	D2, A2	Longer tooling life, lower total tooling cost.
Thread and Form rolls.	D2	Improved toughness.
Slitter knives	D2	Improved toughness.

Flats:	0.50" thru 3.0" Thick	Hardness Range:	60-64
Rounds:	1.0" thru 9.0" Diameter	Heat Treat:	Highly Rated