





	CLASSIFICATIC Based on properties of	N SY set materia	STEN	Λ
Die	5-1-	Properties:	Reaction:	<u>Set:</u>
1	Incression Plaster	Rigid	Irrev	(Chem)
2.	Impression Compound	Rigid	Rev	(Phys)
3.	Zinc Oxide/ Eugenol	Rigid	Irrev	(Chem)
Wai	ter-Based Gel:			
4.	Alginate (Irreversible Hydrocolloid)	Flexible	Irrev	(Chem)
5.	Agar-Agar (Reversible Hydrocolloid)	Flexible	Rev	(Phys)
Elas	stomers (and their HYBRIDS):			
6.	Polysulfide (Rubber Base, Thiokol)	Flexible	Irrev	(Chem)
7.	Silicone (Conventional, Condensation)	Flexible	Irrev	(Chem)
8.	Polyether	Flexible	Irrev	(Chem)
9.	Polyvinyl Siloxane (Addition Silicone)	Flexible	Irrev	(Chem)
				4

































Manufacturer:	Polysulfide:	Conv. Silicone	Polyether:	Polyvinyl Siloxane (PVS)
Bisco				Twinz VPS
Denmat				1 <sup>st</sup> Impression-VPS
Dentsply			Polyiel NF	Aquasil Ultra, Hydrosil, Regisil, Reprosil
DMG Hamburg				Honigum, Status-Blue, Silagum
GC America				ExaFast, ExaMix, ExaBite, ExaJet, ExaFlex+ExaMix
lvoclar-Vivadent				Virtual VPS
Kerr ( <u>Sybron</u> )	Permlastic			Stand-Out, Fill-In, Take-1, Extrude
Hereaus-Kulzer			P2, Xantopren/OptiSil	CutterSil, ElexTime, MemoSil, MemoReg
3M-ESPE			Impregum. Permadyne, Ramitec	Dimension (Garant, Penta). Express, Imprint
Parkell				Blue Mousse, Cinch, Quick Cinch, Green Mousse, Mach-2, Mach- <u>Slo, MucoSoft</u>







## QUICK REVIEW Review of uniaxial analysis, normalization, and stress-strain.

- What TERM describes materials that flow better under stress?
  PSEUDOPLASTIC
- What TERM describes effects of distortion time on properties? STRAIN RATE SENSITIVITY
- What type of setting reaction does POLYETHER undergo?
  STEPWISE POLYMERIZATION
- What type of setting reaction does PVS undergo? CHAIN REACTION POLYMERIZATION
- Which impression material has the best OVERALL properties? PVS.
- Which impression material is the most ACCURATE? POLYETHER.

