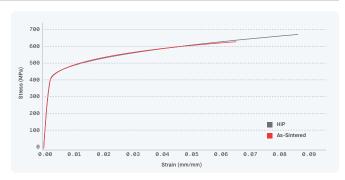
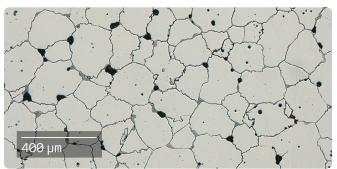


[Material Data Sheet]

## **CoCrMo** Cobalt Chrome



COMPOSITION %		
Co	Balance	
Cr	27 - 30	
Мо	5 - 7	
Mn	<1	
Si	<1.3	
Fe	<0.75	
Ni	<0.5	
С	<0.35	
N	<0.25	



MECHANICAL	PROPERTIES 1

Dental industry

Jewelry

	Shop System™	ISO 22674	Shop System™	ASTM F75
Standard	As-Sintered	type 4	Sintered and HIP <sup>2</sup>	as cast
ASTM E8M	600 ± 13	_	672 ± 21	655
ASTM E8M	424 ± 11	360	445 ± 9	450
ASTM E8M	6.0 ± 2.0	2	8.5 ± 1.9	8
ASTM E111	231 ± 7	—	231 ± 7	_
ASTM E18	17.9 ±2.2	—	22.5 ± 0.9	_
ASTM B311	8.0 ± 0.1	_	8.28 ±0.02	_
	ASTM E8M ASTM E8M ASTM E8M ASTM E111 ASTM E18	Standard  As-Sintered    ASTM E8M  600 ± 13    ASTM E8M  424 ± 11    ASTM E8M  6.0 ± 2.0    ASTM E111  231 ± 7    ASTM E18  17.9 ± 2.2	Standard  As-Sintered  type 4    ASTM EBM  600 ± 13     ASTM EBM  424 ± 11  360    ASTM EBM  6.0 ± 2.0  2    ASTM EBM  6.0 ± 2.0  2    ASTM E111  231 ± 7     ASTM E18  17.9 ± 2.2     ASTM B311  8.0 ± 0.1	Standard  As-Sintered  type 4  Sintered and HIP*    ASTM EBM  600 ± 13   672 ± 21    ASTM EBM  424 ± 11  360  445 ± 9    ASTM EBM  6.0 ± 2.0  2  8.5 ± 1.9    ASTM E111  231 ± 7   231 ± 7    ASTM E18  17.9 ± 2.2   22.5 ± 0.9

Cobalt-28 Chromium-6 Mol	ybdenum
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ASTM F75

UNS R30075

ISO 5832-4

1. Mechanical properties noted represent mean values +/- 1 standard deviation across Xy & Yz orientations for as-printed samples.

2. Samples were hot isostatic pressed at 1200C in 1000 bar argon for 4 hours.

3. Listed designations are for reference purposes only. Composition and mechanical properties may vary.

End-use material performance is impacted (+/-) by certain factors including but not limited to part geometry and design, application and evaluation conditions, etc.

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High temperature applications (e.g. fuel nozzles)