



QUALITY CERTIFICATE

REFERENCE NO #		CUSTOMER NAME / CODE #:	
PRODUCT:	Tempered Martensite Steel		
BATCH NO:		QM INVOICE NO:	
LOT NO:		QM CODE:	
BAG #:		CAS NO#	
MATERIAL ID :		Quality Cert #	

COMMODITY SPECIFICATIONS:

STEEL SHOT S280

INSPECTION RESULTS

SPECIFICATION SHEET

CHEMISTRY	Carbon:	0.10 to 0.15%	SAE J2175
	Silicon:	0.10 to 0.25%	
	Manganese:	1.20 to 1.50%	
	Aluminum:	0.05 to 0.15%	
	Phosphorus:	0.035% max.	
	Sulfur:	0.035% max.	
SCREENING	Sieve	Opening	Specification
	16	0.0469	A/P
	18	0.0394	5% max.
	20	0.0331	
	25	0.0278	85% min.
	30	0.0234	96% min.
HARDNESS	40 - 51 Rc, typical 44.5 Rc		SAE J2175
% ROUNDS	< 5% non-spherical (length > 2 x width), typical < 3%		SAE J2175
% VOIDS AND HOLLOWES	< 10% voids and hollows, typical < 2%		SAE J2175
NON-MAGNETIC MATERIAL	< 1% non-magnetic material, typical < 0.5%		SAE J2175
DENSITY	> 7 g/cc (wet method)		SAE J2175
DURABILITY	> 3700 passes (Ervin Test), typical 4000		SAE J2175

